

FEDERAL ITEM IDENTIFICATION GUIDE

FITTINGS: HOSE, PIPE AND TUBE

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This Federal Item Identification Guide for Supply Cataloging is issued under the authority of Department of Defense Instruction 5025.7.

The use of this publication is mandatory for US. Federal Activities participating in Federal Catalog System Operations.

BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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GENERAL INFORMATION

1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

2. Contents

This FIIG is comprised of the following:

- Index of Approved Item Names Covered by this FIIG
- Applicability Key Index
- Section I - Item Characteristics Data Requirements
- Section III - New text that should be here.
- Appendix A - Reply Tables
- Appendix B - Reference Drawing Groups (as applicable)
- Appendix C - Technical Data Tables (as applicable)

a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

(1) The letter "X" indicates the requirement must be answered for a full descriptive item.

(2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (*) is used in conjunction with the applicability key column in Section I.

(3) A blank in the column indicates the requirement is not applicable to the specific item name.

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c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

(1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

(2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

(b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (*). Steps (1) through (6) are repeated for each application of the requirement.

(c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign (\$\$) for an AND condition, (5) the mode code, (6) the response or reply code

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(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

(3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

(4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

(5) Reply Code:

A code that represents an established authorized reply to a requirement.

d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

g. Appendix C - Technical Data Tables:

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This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

<u>MRC</u>	<u>Mode</u> <u>Code</u>	<u>Requirement</u>	<u>Example</u>
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGW OVEN WIRE CLOTH*

4. Special Instructions and Indicator Definitions

a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

5. Indexes

a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

6. Maintenance

Requests for revisions and other changes will be directed to:

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
ADAPTER BODY, TUBE-HOSE	32833	VB
An incomplete fitting which, when installed, is designed to join together in a straight line a tube and/or tube fitting to a hose and/or hose fitting. The item may have a complete connection on one end; the other end always requires an additional nut and/or sleeve to make a complete end connection.		
ADAPTER BUSHING	18018	LA
An item having wrenching facilities on one end and a threaded connection of one type within an externally threaded connection of another type. One connection must have machine threads not designed for any type of tube or tube fitting. See BUSHING, MACHINE THREAD and ADAPTER (1), as modified.		
Bushing		
1. A replaceable part, cylindrical in shape, hollow, and designed primarily to be inserted in a hole to reduce the effective inside diameter of the hole, and to protect the body structure about the hole from damage resulting from stress, strain, and vibration. Excludes BEARING, SLEEVE; GROMMET (as modified) and REDUCER (as modified).		
BUSHING (1), BOSS	36676	KA
A straight fitting with internal and external straight threads other than pipe or hose with wrenching facility. Designed to facilitate a gasket, preformed packing, washer or the like to form a seat at the boss. Excludes REDUCER, BOSS and BUSHING, MACHINE THREAD.		
BUSHING, HOSE	03778	KA
A fitting with standard hose threads having a female connection inside a main connection, used in conjunction with other fittings to connect in the same lines to two hoses of different sizes.		
BUSHING, PIPE	03779	KA
A fitting with pipe threads having a female connection inside of a male connection, used in conjunction with another fitting, to connect in the same line, pipes of different sizes.		
BUSHING, TANK	03780	KA
A double internal tapped bushing, recessed between the internal tapping, used to reduce threaded tank openings. They permit the passage of a foot valve, elbow, strainer, and the like through the tank opening, and then reduce the opening to suction pipe size. The internal tapings permit the connection of two pipes of the same size in a straight line.		
CLAMP, PIPE, ANCHOR AND REINFORCEMENT	05070	PA

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
CONNECTOR, MULTIPLE, FLUID PRESSURE LINE	18682	GA
A device of varying shapes with two or more connections to accommodate hydraulic or air passage(s) line end connection and/or a BOLT, FLUID PASSAGE(S).		
COUPLING ASSEMBLY, TUBE, FLEXIBLE	32834	VA
A multipiece gasket sealed item specifically designed for joining plain end ferruled tubing that will accommodate angular misalignment, axial motion and permits expansion and contraction of the tubing. It may be disconnected for seal replacement without disturbing the rest of the line. The seals are not normally furnished with the item. For rigid type items see COUPLING, TUBE and UNION, TUBE.		
COUPLING BODY, TUBE	32835	VB
An incomplete fitting which, when installed, is designed to join together in a straight line two tubes and/or tube fittings of the same size. The item may have a complete connection on one end; the other end always requires an additional nut, sleeve, ferrule or the like to make a complete connection.		
COUPLING, CLAMP, PIPE	17503	FA
A device of two or more bolted segments of housing and a gasket, designed to connect grooved or plain end pipe or tube (or fittings) which creates a fluid tight joint.		
EXPANSION JOINT, PIPE	04199	TA
FERRULE, BRAZING, TUBE FITTING	18024	JA
A flanged cylindrical metallic item designed to be slipped over tubing and brazed in place. The rear face of the flange forms a bearing surface for the coupling nut, and the front face is of a contour designed to seat against a mating contour on a fitting. When assembled the joint seals at the seat in a manner similar to a seat type union.		
FERRULE, COMPRESSION, TUBE FITTING	47330	JA
A flanged cylindrical metallic or nonmetallic item designed to be slipped over tubing. The rear face of the flange forms a bearing surface for the coupling nut, and the front face is of a contour designed to seat against a mating contour on a fitting. When assembled, the joint seals at the seat in a manner similar to a seat type union.		
FERRULE, SOCKET WELDED, TUBE FITTING	41294	JA
A flanged cylindrical metallic item designed to be slipped over tubing and welded in place. The rear face of the flange forms a bearing surface for the coupling nut, and the front face is of a contour designed to seat against a mating contour on a fitting. When assembled the joint seals at the seat in a manner similar to a seat type union.		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
FERRULE, SWAGE, TUBE COUPLING	32679	JA
A flanged cylindrical metallic item used with a plain end tube and swaged in place. It is designed to be used as a component part of a flexible or rigid tube coupling.		
INSERT, TUBE FITTING	32691	JB
A flanged cylindrical metallic or nonmetallic item designed to be inserted into soft plastic tubing to accommodate the sleeve of compression type tube fittings.		
INVERTED NUT, TUBE COUPLING	03857	BA
An externally threaded fastening device which has an internal or external seat, designed to mate with the seat of an internally threaded tube fitting for the purpose of securing the tube to the fitting to form a leakproof connection.		
MENDER, HOSE	03344	UA
A hose fitting constructed of one or more pieces. It is used to join two rubber or plastic hoses; rubber or plastic tubes. The ends of the fitting may have barbed, corrugated, or threaded connections or combination thereof.		
NUT ASSEMBLY, TUBE COUPLING	32836	VC
An item consisting of an internally threaded nut and an integral floating washer designed to be used with a gasket seal to connect beaded or swaged ferruled thin wall tubing to a coupling body, boss connection, or the like to form a flexible or rigid leakproof connection.		
PACKING NUT	18028	EA
An item having internal and/or external machine thread(s) (threads other than pipe or hose series), specifically designed to retain, by means of groove(s), shoulder(s), and the like, packing and/or a packing gland within a stuffing box. See also BUSHING, MACHINE THREAD; INVERTED NUT, TUBE COUPLING; and NUT, TUBE COUPLING. Excludes PACKING NUT, STUFFING TUBE used with electrical cable and LOCKNUT, PIPE.		
REDUCER BODY, TUBE	61840	VB
An incomplete fitting which upon installation is designed to join together in a straight line two tubing lines and/or fittings of different sizes. The item consists of the body which has a complete end connection on one end; the other end is designed to mate with a tube or tube fitting but requires an additional nut and/or sleeve to make a complete end connection.		
SEAL BONNET, TUBE	03784	MA
A metal tube fitting used with a coupling nut or sealing cap to cap the end of a fitting.		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
SEAL, CONICAL, FLARED TUBE FITTING	32837	JA

A cylindrical soft metallic crush type item used to seal high pressure flared tube connections. It is designed to be inserted between the conical surface of a flared tube fitting the inner surface of the flared end of the connecting tube.

SHIELD, SAFETY, PIPE FLANGE	32552	WA
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An item specifically designed to fit around a pipe flange joint to confine high pressure spray from a flanged joint leak and prevents uncontrolled spray of fluids that could result in injury to personnel and damage to equipment and materials.

SLEEVE, CLINCH, TUBE FITTING	18025	JA
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A flanged cylindrical item having a sharp cutting surface on the inside diameter at the end opposite the flange. The cutting edge, in use, is designed to imbed in the tubing due to pressure exerted when the outside diameter of the sleeve is forced into and against an angular seat. This firmly attaches the sleeve to the tubing and the flanged end then serves as a bearing surface for the coupling nut to bring the tubing into the mating fitting.

SLEEVE, COMPRESSION, TUBE-HOSE FITTING	18026	JA
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A ring-shaped item whose outer surface is so shaped as to form a seat for the coupling nut and the fitting between which it is assembled. It is designed to be slipped over tubing or hose so that tightening of the coupling nut to the fitting compresses the sleeve against the circumference of the tubing or hose thereby effecting a tight seal between the tubing, or hose fitting and coupling nut.

SLEEVE, FLARED, TUBE FITTING	18027	JA
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A flanged cylindrical metallic item designed to be used on tubing to back up the flared end and to provide a bearing surface for the coupling nut, thereby reducing wear on the tubing flare. The inside diameter of the flanged end is countersunk to form a seat for the flare when assembled to a mating fitting.

SLEEVE, HOSE CONNECTOR	40087	JD
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A threadless metallic item with center wrenching facility designed to be slipped over soft tubing and shank connector to form a tight fitting.

SLEEVE, REINFORCING, HOSE	36919	JC
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An item designed for internal support of large diameter hoses exposed to vacuum conditions. It provides vacuum protection while maintaining flexibility and also provides a smooth surface which minimizes turbulent flow. Excludes SPRING, REINFORCING, HOSE.

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
SPACER, FLEXIBLE, PIPELINE	17666	RA
An item made from rubber in various shapes, flanged on each end, and having a centrally located hole of the same size as the piping with which used. It is designed to be inserted between sections of pipe or pipe and casing of fans, pumps, or the like, to absorb shock, dampen vibration and to facilitate removal of section(s) for repair or other purposes.		
SPOOL PIECE	11468	SA
A straight cut length of pipe fabricated with drilled and face flanges on each end. It may have steel lifting rings or ears welded longitudinally to the pipe and it is generally used for submerged pipeline, fuel loading line, and the like.		
TAILPIECE, UNION	04135	QA
A fitting used with a union nut and thread piece to form a union.		
THREAD PIECE, UNION	04141	QB
A fitting used with a union nut and a tailpiece to form a union.		

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ASDB	AR
BSPX	AR
AJFY	AR
ACSV	X
ABUJ	X
AJYP	X
AAJD	AR
AAJE	AR
AAJF	X
CTTC	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
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ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
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ABVA	AR
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AGWL	AR
ASDB	AR
BRQL	AR
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ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
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CBME	AR
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PMLC	AR
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ABMK	AR
ABMZ	AR
ABNM	AR
ABTB	AR
AHNX	AR
CFQL	AR
CGLW	AR
CFQM	AR
CGLT	AR
CGLN	AR
AHNC	AR
CGLP	AR
AFEW	AR
ABUJ	AR
AJYP	AR
AAJD	AR
AAJE	AR
AAJF	AR
BJHZ	AR
AJFY	AR
AJFZ	AR
CTTC	AR
CGLQ	X
CGLR	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CCNF	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
AGAV	AR
ZZZV	AR
CXCY	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>JA</u>	<u>JB</u>	<u>JC</u>	<u>JD</u>
NAME	X	X	X	X
MATL	X	X	X	X
SURF	AR	AR	AR	AR
AETC	AR	AR	AR	AR
AASG	X	X	AR	AR
CPMS	X			X
AJER				X
CHPR		X		
APCN			X	
CWPX			X	
ABXG			X	
AARX			X	
ABHE			X	
STYL	X	X		X
ABHP	AR	AR		AR
AGFF	AR	AR		AR
AHTB	AR	AR		AR
AHTC	AR	AR		AR
AJFZ	AR	AR		AR
ARYW	AR	AR		AR
CGLX	AR	AR		AR
CGLY	AR	AR		AR
AJFY	AR	AR		AR
ABHP	AR	AR		AR
ABND	AR	AR		AR
ARYW	AR	AR		AR
ASDB	AR	AR		AR
AJFY	AR	AR		AR
ABHP	AR	AR		AR
AGFF	AR	AR		AR
AHTC	AR	AR		AR
ARYW	AR	AR		AR
AJFY	AR	AR		AR
AAGT	AR	AR		AR
ABHP	AR	AR		AR
ABKV	AR	AR		AR
ADAQ	AR	AR		AR
AGFF	AR	AR		AR
AHTC	AR	AR		AR
ARYW	AR	AR		AR
AJFY	AR	AR		AR
AAZT	AR	AR		AR
ABGC	AR	AR		AR
ABHP	AR	AR		AR
AGFF	AR	AR		AR
AHTB	AR	AR		AR
AHTC	AR	AR		AR
ARYW	AR	AR		AR
CGLX	AR	AR		AR
ATPP	AR	AR		AR
AHTC	AR	AR		AR
ARYW	AR	AR		AR
FEAT	AR	AR	AR	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

TEST	AR	AR	AR	AR
SPCL	AR	AR	AR	AR
ZZZK	AR	AR	AR	AR
ZZZT	AR	AR	AR	AR
ZZZW	AR	AR	AR	AR
ZZZX	AR	AR	AR	AR
ZZZY	AR	AR	AR	AR
CRTL	AR	AR	AR	AR
PRPY	AR	AR	AR	AR
ELRN	AR	AR	AR	AR
ELCD	AR	AR	AR	AR
CCNF	AR	AR	AR	AR
CBME	AR	AR	AR	AR
PRMT	AR	AR	AR	AR
PMWT	AR	AR	AR	AR
PMLC	AR	AR	AR	AR
SUPP	AR	AR	AR	AR
AGAV	AR	AR	AR	AR
ZZZV	AR	AR	AR	AR
CXCY	AR	AR	AR	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>KA</u>
NAME	X
MATL	X
CGMB	AR
BZRJ	AR
SURF	AR
STYL	X
AWMG	X
CGMD	X
CGMF	X
AWMH	X
CGMH	X
CGMJ	X
CDPG	X
CDPH	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CCNF	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
AGAV	AR
ZZZV	AR
CXCY	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>LA</u>
NAME	X
MATL	X
SURF	AR
CGMK	X
CGML	X
BTFJ	AR
CGMM	AR
CGMN	X
CGMP	X
CGMQ	X
CGMR	X
BTFL	AR
CGMS	AR
CGMT	X
CGMW	X
CDPM	AR
CDPQ	AR
ABMZ	AR
AEJZ	AR
AATE	AR
ACSL	X
CDPY	AR
ASDB	AR
ABNM	AR
ABHP	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CCNF	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
AGAV	AR
ZZZV	AR
CXCX	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

MA

NAME	X
MATL	X
SURF	AR
STYL	X
ACSV	X
CGMX	X
AGMZ	AR
AQLF	AR
AJYP	AR
AAJD	AR
AAJE	AR
ABET	AR
AAJF	AR
CTTC	AR
CDPG	X
CDPH	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CCNF	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
AGAV	AR
ZZZV	AR
CXCY	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>PA</u>
NAME	X
MATL	X
SURF	AR
ADTS	X
ABHP	X
CGMZ	X
AGFC	X
ACKL	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CCNF	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
AGAV	AR
ZZZV	AR
CXCY	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>QA</u>	<u>QB</u>
NAME	X	X
MATL	X	X
SURF	AR	AR
AWQD	X	X
ALME	AR	AR
BYJF	X	X
CGNB	AR	AR
AJFY	AR	AR
AJFZ	AR	AR
AWZY	X	X
ABUJ	AR	AR
AJYP	AR	AR
AAJF	AR	AR
BBMM	AR	AR
AAGN	AR	AR
AQRX	AR	AR
CGNC	AR	AR
CGND		X
CGNF		X
CGNG		X
CGNH		X
CGNJ	X	
AHTC	AR	
ABKU	AR	
CGNK	AR	
ABHP	X	X
CDPG	X	X
FEAT	AR	AR
TEST	AR	AR
SPCL	AR	AR
ZZZK	AR	AR
ZZZT	AR	AR
ZZZW	AR	AR
ZZZX	AR	AR
ZZZY	AR	AR
CRTL	AR	AR
PRPY	AR	AR
ELRN	AR	AR
ELCD	AR	AR
CCNF	AR	AR
CBME	AR	AR
PRMT	AR	AR
PMWT	AR	AR
PMLC	AR	AR
SUPP	AR	AR
AGAV	AR	AR
ZZZV	AR	AR
CXCY	AR	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>RA</u>
NAME	X
MATL	X
AARN	X
STYL	X
AARX	AR
ABHP	AR
ABKG #	AR
ABKU	AR
ABKV	AR
ABNM	AR
ADAQ	AR
ADJT	AR
ADJU	AR
ADJV	AR
AGWL	AR
AHGD	AR
AHNX #	AR
AJEE #	AR
BSPX	AR
CGLZ	AR
AECS #	AR
BMJT	X
ALQM	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CCNF	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
AGAV	AR
ZZZV	AR
CXCY	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

SA

NAME	X
MATL	X
SURF	AR
ABQK	X
BCCH	X
AXPW	X
CGNL	X
CGNM	X
CGMC	X
AAGN	X
ABHP	X
BBMW	AR
NMBR	AR
ACVW	AR
AAUB	AR
ACVU	AR
AWHT	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CCNF	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
AGAV	AR
ZZZV	AR
CXCY	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>TA</u>
NAME	X
APGF	X
CHLN	AR
AQNE	X
BMHW	AR
BHJT	X
CHLP	AR
AFTB	AR
CHLQ	AR
CJMT	X
CJMW	AR
AWZY	X
CKWD	AR
ABKG	AR
AECS	AR
AHNX	AR
AHTC	AR
AHTH	AR
CHLR	AR
AJYP	AR
CQQR	AR
CTTC	AR
CFQK	AR
AAGN	X
CHLT	X
ABHP	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CCNF	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
AGAV	AR
ZZZV	AR
CXCY	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

UA

NAME	X
MATL	X
SURF	AR
CHLW	AR
AJER	X
ABHP	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CCNF	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
AGAV	AR
ZZZV	AR
CXCY	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>VA</u>	<u>VB</u>	<u>VC</u>
NAME	X	X	X
MATL	X	X	X
SURF	AR	AR	AR
STYL	X	X	X
ABHP	AR	AR	AR
ABKV	AR	AR	AR
AGFF	AR	AR	AR
AHTC	AR	AR	AR
ACTE	AR	AR	AR
ACTF	AR	AR	AR
ACSV	X	X	X
AJER		AR	
ABUJ		AR	X
AJYP		AR	X
AAJD		AR	X
AAJF		AR	X
CTTC		AR	AR
CDPG	AR	AR	AR
CDPH	AR	AR	AR
FEAT	AR	AR	AR
TEST	AR	AR	AR
SPCL	AR	AR	AR
ZZZK	AR	AR	AR
ZZZT	AR	AR	AR
ZZZW	AR	AR	AR
ZZZX	AR	AR	AR
ZZZY	AR	AR	AR
CRTL	AR	AR	AR
PRPY	AR	AR	AR
ELRN	AR	AR	AR
ELCD	AR	AR	AR
CCNF	AR	AR	AR
CBME	AR	AR	AR
PRMT	AR	AR	AR
PMWT	AR	AR	AR
PMLC	AR	AR	AR
SUPP	AR	AR	AR
AGAV	AR	AR	AR
ZZZV	AR	AR	AR
CXCY	AR	AR	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

	<u>WA</u>
NAME	X
MATL	X
SURF	X
STYL	X
ABHP	AR
ABMK	AR
CQPN	AR
CQYF	AR
CRGQ	AR
CSKL	AR
ATWT	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
CCNF	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
AGAV	AR
ZZZV	AR
CXCY	AR

FIIG T385
GENERAL INFORMATION
APPLICABILITY KEY INDEX

[Page Break]

Body

SECTION: B

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED03857*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBR0000*; MATLDBR0000\$\$DST0000*; MATLDST1796\$DST2016*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPE OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000*; SURFDAN0000\$\$DCDR000*; SURFDAN0000\$DCDR000*)

ALL

AWQD	J	STRENGTH RATING
------	---	-----------------

Definition: THE LOAD IN TENSION APPLIED IN A LONGITUDINAL DIRECTION OR THE LOAD THAT CAN BE APPLIED IN A PLANE PERPENDICULAR TO THE AXIAL CENTERLINE WITHOUT RUPTURE OR PERMANENT DEFORMATION OF THE MATERIAL.

FIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AWQDJVAD30000.0*; AWQDJVAB30000.0\$\$JVAB40000.0*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., AWQDKN*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
S	MEGAPASCALS
V	POUNDS PER SQUARE INCH

Table 2

<u>REPLY CODE</u>	<u>REPLY (AM45)</u>
AD	MINIMUM PROOF LOAD
AB	MINIMUM TENSILE
AC	MINIMUM YIELD

ALL

AASG	D	CASEHARDENING INDICATOR
------	---	-------------------------

Definition: INDICATES WHETHER OR NOT A FERROUS ALLOY OBJECT HAS BEEN SUBJECTED TO A PROCESS WHEREBY THE OUTER PORTION IS MADE SUBSTANTIALLY HARDER THAN THE INNER PORTION OR CORE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AASGDA*)

<u>REPLY CODE</u>	<u>REPLY (AA70)</u>
A	CASEHARDENED
B	NOT CASEHARDENED

ALL

ALME	J	MATERIAL HARDNESS RATING
------	---	--------------------------

Definition: A NUMERIC VALUE THAT REFLECTS THE HARDNESS OF THE MATERIAL WHEN USED IN CONJUNCTION WITH A HARDNESS RATING SCALE.

FIIG T
Section Parts

APP
Key MRC Mode Code Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ALMEJRC A37.0*; ALMEJRC B35.0\$JRCC39.0*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., ALMEKN*)

Table 1

REPLY CODE

RA
RB
RC
RD
RR

REPLY (AC26)

ROCKWELL A
ROCKWELL B
ROCKWELL C
ROCKWELL D
ROCKWELL R

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL

AARN D FABRICATION METHOD

Definition: THE PROCESS USED IN MANUFACTURING THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AARND AJ*; AARND JL\$DAN*)

REPLY CODE

A
JL
AN
DK
GR
AJ
JM
AS

REPLY (AA62)

ANY ACCEPTABLE
BAR STOCK, MACHINED
CAST
COLD DRAWN
EXTRUDED
FORGED
ROD STOCK, MACHINED
ROLLED

ALL

STYL L STYLE DESIGNATOR

FIG T
Section Parts

APP
Key MRC Mode Code Requirements

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ITEM.

Reply Instructions: Enter the group designator and the applicable style number from [Appendix B](#), Reference Drawing Group A. (e.g., STYLLA4*)

ALL

ACSV J TUBE OUTSIDE DIAMETER FOR WHICH DESIGNED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE TUBE FOR WHICH DESIGNED, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACSVJAA4.000*; ACSVJLA90.0*; ACSVJAB3.900\$JAC4.100*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

ABUJ A THREAD SIZE

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the thread size. (e.g., ABUJA3/8-24*)

ALL

AJYP D SCREW THREAD SERIES DESIGNATOR

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3. (e.g., AJYPDNP*)

NOTE FOR MRCS AAJD AND AAJE: IF A STANDARD THREAD IS ENTERED FOR MRC AJYP, REPLY TO MRC AAJD. IF A NONSTANDARD THREAD IS ENTERED FOR MRC AJYP, REPLY TO MRC AAJE.

ALL* (See Note Above)

AAJD	A	THREAD CLASS
------	---	--------------

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.

Reply Instructions: Enter the thread class. (e.g., AAJDA3A*)

ALL* (See Note Preceding MRC AAJD)

AAJE	J	THREAD PITCH DIAMETERS
------	---	------------------------

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values separated by a slash. Precede all values with a P. (e.g., AAJEJAP1.7110/P1.7160*)

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

ALL

AAJF	D	THREAD DIRECTION
------	---	------------------

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

FIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AAJFDAAL*)

REPLY CODE
AAG
AAL

REPLY (AA38)
LEFT-HAND
RIGHT-HAND

ALL*

CTTC J THREAD TOLERANCE CLASS

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.

Reply Instructions: Enter the applicable Reply Code from the table below followed by the designator. (e.g., CTTCJNTE6H*).

REPLY CODE
EXT
NTE

REPLY (AN73)
EXTERNAL
INTERNAL

FIIG T
Section Parts

SECTION: E

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED18028*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDALC000*; MATLDALC000\$DST0000*; MATLDAL0000\$DST0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000*; SURFDAN0000\$DCDR000*; SURFDAN0000\$DCDR000*)

ALL

AWQD	J	STRENGTH RATING
------	---	-----------------

Definition: THE LOAD IN TENSION APPLIED IN A LONGITUDINAL DIRECTION OR THE LOAD THAT CAN BE APPLIED IN A PLANE PERPENDICULAR TO THE AXIAL CENTERLINE WITHOUT RUPTURE OR PERMANENT DEFORMATION OF THE MATERIAL.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AWQDJVAB220.000*)

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., AWQDKN*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
S	MEGAPASCALS
V	POUNDS PER SQUARE INCH

Table 2

<u>REPLY CODE</u>	<u>REPLY (AM45)</u>
AB	MINIMUM TENSILE
AC	MINIMUM YIELD

ALL

ALME	J	MATERIAL HARDNESS RATING
------	---	--------------------------

Definition: A NUMERIC VALUE THAT REFLECTS THE HARDNESS OF THE MATERIAL WHEN USED IN CONJUNCTION WITH A HARDNESS RATING SCALE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ALMEJRCA37.0*; ALMEJRCB35.0\$JRCC39.0*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., ALMEKN*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AC26)</u>
RA	ROCKWELL A
RB	ROCKWELL B
RC	ROCKWELL C
RD	ROCKWELL D
RE	ROCKWELL E
RF	ROCKWELL F

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL

AASG D CASEHARDENING INDICATOR

Definition: INDICATES WHETHER OR NOT A FERROUS ALLOY OBJECT HAS BEEN SUBJECTED TO A PROCESS WHEREBY THE OUTER PORTION IS MADE SUBSTANTIALLY HARDER THAN THE INNER PORTION OR CORE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AASGDA*; AASGDA\$DB*)

REPLY CODE

A
B

REPLY (AA70)

CASEHARDENED
NOT CASEHARDENED

ALL

STYL L STYLE DESIGNATOR

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ITEM.

Reply Instructions: Enter the group designator and applicable style number from [Appendix B](#), Reference Drawing Group C. (e.g., STYLLC8*)

NOTE FOR MRCS ABUJ, AJYP, AAJD, AAJE, AASA, AAJF, AND BBMM: REPLY TO THESE MRCS, AS APPLICABLE, ENTERING A REPLY FOR EACH SIZE AND TYPE OF THREAD, USING AND (\$\$) CODING.

ALL (See Note Above)

ABUJ A THREAD SIZE

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the thread size.

(e.g., ABUJA9/16-18*; ABUJA9/16-18\$\$A3/4-12*)

ALL (See Note Preceding MRC ABUJ)

AJYP D SCREW THREAD SERIES DESIGNATOR

FIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3 . (e.g., AJYPDNP*; AJYPDNP\$\$DNF*)

NOTE FOR MRCS AAJD AND AAJE: REPLY TO MRC AAJD, IF A STANDARD THREAD IS ENTERED FOR AJYP. REPLY TO MRC AAJE, IF A NONSTANDARD THREAD IS ENTERED FOR MRC AJYP.

ALL* (See Note Above and Preceding MRC ABUJ)

AAJD	A	THREAD CLASS
------	---	--------------

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.

Reply Instructions: Enter the thread class. (e.g., AAJDA2B; AAJDA2B\$\$A3A*)*

ALL* (See Note Preceding MRCs AAJD and ABUJ)

AAJE	J	THREAD PITCH DIAMETERS
------	---	------------------------

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values separated by a slash. Precede all values with a P. (e.g., AAJEJAP1.7110/P1.7160*; AAJEJAP1.7110/P1.7160\$\$JAP2.2100/P2.2600*)

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

ALL (See Note Preceding MRC ABUJ)

AASA	J	THREAD LENGTH
------	---	---------------

Definition: A MEASUREMENT OF THE EXTENT OF THREADS, INCLUDING INCOMPLETE THREADS, ALONG A LINE PARALLEL TO THE LONGITUDINAL AXIS.

FIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AASAJAA0.063*; AASAJLA10.0*; AASAJAB0.061\$\$JAC0.065*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL (See Note Preceding MRC ABUJ)

AAJF	D	THREAD DIRECTION
------	---	------------------

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AAJFDAAG*; AAJFDAAG\$\$DAAL*)

REPLY CODE

AAG
AAL

REPLY (AA38)

LEFT-HAND
RIGHT-HAND

ALL (See Note Preceding MRC ABUJ)

BBMM	D	SCREW THREAD LOCATION
------	---	-----------------------

Definition: INDICATES THE LOCATION OF THE SCREW THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BBMMDABY*; BBMMDABY\$\$DABX*)

REPLY CODE

ABY
ABX

REPLY (AJ91)

EXTERNAL
INTERNAL

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL*

CTTC	J	THREAD TOLERANCE CLASS
------	---	------------------------

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.

Reply Instructions: Enter the applicable Reply Code from the table below followed by the designator. (e.g., CTTCJNTE6H*).

<u>REPLY CODE</u> EXT NTE	<u>REPLY (AN73)</u> EXTERNAL INTERNAL
---------------------------------	---

FIIG T
Section Parts

SECTION: F

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED17503*)

ALL

CFQJ	D	END TYPE FOR WHICH DESIGNED
------	---	-----------------------------

Definition: INDICATES THE TYPE OF END FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CFQJDAGD*)

<u>REPLY CODE</u>	<u>REPLY (AK84)</u>
AGD	COLLARED
AGE	GROOVED
AAT	PLAIN

ALL

AJLF	D	HOUSING MATERIAL
------	---	------------------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE HOUSING IS FABRICATED.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., AJLFDAL0000*; AJLFDAL0000\$DST0000*)

ALL

CBPR	D	GASKET MATERIAL
------	---	-----------------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE GASKET IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., CBPRDALC000*; CBPRDAS0000\$DRC0000*)

ALL

ALDT	A	SEGMENT QUANTITY
------	---	------------------

Definition: THE NUMBER OF SEGMENTS INCLUDED IN THE ITEM.

Reply Instructions: Enter the quantity. (e.g., ALDTA2*)

ALL*

BTDT	J	PIPE SIZE ACCOMMODATED
------	---	------------------------

Definition: DESIGNATES THE PIPE SIZE THE ITEM WILL ACCOMMODATE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BTDTJAA8.000*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL*

ACSV	J	TUBE OUTSIDE DIAMETER FOR WHICH DESIGNED
------	---	---

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE TUBE FOR WHICH DESIGNED, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACSVJAA2.375*; ACSVJLA50.0*; ACSVJAB2.365\$\$JAC2.385*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

CFQK	J	WORKING PRESSURE RATING
------	---	-------------------------

Definition: THE WORKING PRESSURE AT WHICH THE ITEM IS RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CFQKJEYA1.000*; CFQKJEYB5.000\$JEYC7.000*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., CFQKKN*)

Table 1

REPLY CODE

EY

LJ

FB

REPLY (AG67)

KILOGRAMS PER SQUARE CENTIMETER

MEGAPASCALS

POUNDS PER SQUARE INCH

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIG T
Section Parts

SECTION: G

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED18682*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBR0000*; MATLDBR0000\$DST0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000*; SURFDAN0000\$DCDR000*)

ALL

STYL	L	STYLE DESIGNATOR
------	---	------------------

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ITEM.

Reply Instructions: Enter the group designator and applicable style number from [Appendix B](#), Reference Drawing Group D. (e.g., STYLLD29*)

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

NOTE FOR MRCS CGLN, AHNC, AFEW, ABUI, AJYP, AAJD, AAJE, AAJF, BJHZ, AJFY, AND AJFZ: FOR EACH DIFFERENT SIZE OR TYPE OF FLUID CONNECTION, USE IDENTIFIED SECONDARY ADDRESS CODING, ENTERING THE SAME SEQUENCE ESTABLISHED UNDER POSITIONING INSTRUCTIONS IN APPENDIX B, REFERENCE DRAWING GROUP D.

ALL (See Note Above)*

CGLN A FLUID CONNECTION QUANTITY

Definition: THE NUMBER OF FLUID CONNECTIONS PROVIDED.

Reply Instructions: Enter the applicable Identified Secondary Address Coding (I/SAC) from the table below, followed by the quantity. (e.g., CGLN1ZA2; CGLN1AA2*; CGLN1BA3*)*

<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1E	FIFTH CONNECTION
1A	FIRST CONNECTION
1D	FOURTH CONNECTION
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

NOTE FOR MRCS AHNC, CGLP, AFEW, AND BJHZ: REPLY TO THESE MRCS, IF A REPLY IS ENTERED FOR MRC CGLN.

ALL (See Note Above and Preceding MRC CGLN)*

AHNC L CONNECTION STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE CONNECTION.

FIG T
Section Parts

Reply Instructions: Enter the applicable Identified Secondary Address Coding (I/SAC) from the table below, followed by the group designator and applicable style number from [Appendix B](#), Reference Drawing Group E, F, G or H. (e.g., AHNC1YLE2; AHNC1ALF2*; AHNC1BLF5*)*

<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1E	FIFTH CONNECTION
1A	FIRST CONNECTION
1D	FOURTH CONNECTION
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

ALL* (See Note Preceding MRC AHNC)

CGLP G FLUID CONVEYANCE TYPE AND SIZE FOR WHICH DESIGNED

Definition: INDICATES THE FLUID CONVEYANCE TYPE AND SIZE FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the reply in clear text. (e.g., CGLPG3/8 IN. NOM PIPE SIZE*)

Separate multiple replies with a semicolon, entering as instructed in Appendix B, Reference Drawing Group D. (e.g., CGLPG3/8 IN. NOM PIPE SIZE; 3/4 IN. OD TUBE; 3/4 IN. OD TUBE; 3/4 IN. ID HOSE SIZE*)

ALL* (See Note Preceding MRCs CGLN and AHNC)

AFEW D THREAD PROVISION

Definition: AN INDICATION OF WHETHER A PORTION(S) OF THE ITEM IS THREADED OR UNTHREADED.

Reply Instructions: Enter the applicable Identified Secondary Address Coding (I/SAC) from Tables 1 below, followed by the applicable Reply Code from Table 2 below. (e.g., AFEWIZDB; AFEWIADB*; AFEWIBBC*)*

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1E	FIFTH CONNECTION
1A	FIRST CONNECTION
1D	FOURTH CONNECTION
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

FIG T
Section Parts

Table 2
REPLY CODE
B
C

REPLY (AE00)
THREADED
UNTHREADED

NOTE FOR MRCS ABUJ, AJYP, AND AAJF: REPLY TO THESE MRCS IF REPLY CODE B IS ENTERED FOR MRC AFEW.

ALL* (See Note Above and Preceding MRC CGLN)

ABUJ A THREAD SIZE

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the applicable Identified Secondary Address Coding (I/SAC) from the table below, followed by the thread size. (e.g., ABUJ1YA1-1/16 IN.-12; ABUJ1AA1-1/16 IN.-12*; ABUJ1BA1-1/4 IN.-12*)*

<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1E	FIFTH CONNECTION
1A	FIRST CONNECTION
1D	FOURTH CONNECTION
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

ALL* (See Note Preceding MRCS ABUJ and CGLN)

AJYP D SCREW THREAD SERIES DESIGNATOR

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable Identified Secondary Address Coding (I/SAC) from the table below, followed by the applicable Reply Code from [Appendix A](#), Table 3 . (e.g., AJYP1ZDNP; AJYP1ADUN*; AJYP1BDNF*)*

FIG T
Section Parts

<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1E	FIFTH CONNECTION
1A	FIRST CONNECTION
1D	FOURTH CONNECTION
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

NOTE FOR MRCS AAJD AND AAJE: REPLY TO MRC AAJD IF A STANDARD THREAD IS ENTERED FOR MRC AJYP. REPLY TO MRC AAJE IF A NONSTANDARD THREAD IS ENTERED FOR MRC AJYP.

ALL (See Note Above and Preceding MRCs CGLN and ABUJ)*

AAJD A THREAD CLASS

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.

Reply Instructions: Enter the applicable Identified Secondary Address Coding (I/SAC) from the table below, followed by the thread class. (e.g., AAJD1ZA3A; AAJD1AA3A*; AAJD1BA3B*)*

<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1E	FIFTH CONNECTION
1A	FIRST CONNECTION
1D	FOURTH CONNECTION
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

ALL (See Note Preceding MRCs CGLN, ABUJ, and AAJD)*

AAJE J THREAD PITCH DIAMETERS

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.

FIG T
Section Parts

Reply Instructions: Enter the applicable Identified Secondary Address Coding (I/SAC) from Table 1 below, followed by the applicable Reply Code from Table 2 below, followed by the numeric values separated by a slash. Precede all values with a P. (e.g., AAJE1ZJAP1.7110/P1.7160; AAJE1AJAP1.7110/P1.7160*; AAJE1BJAP2.220/P2.260*)*

Table 1

REPLY CODE

1Z

1E

1A

1D

1B

1Y

1C

REPLY (0261)

ALL CONNECTIONS

FIFTH CONNECTION

FIRST CONNECTION

FOURTH CONNECTION

SECOND CONNECTION

SINGLE CONNECTION

THIRD CONNECTION

Table 2

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

ALL* (See Note Preceding MRCs CGLN and ABUJ)

AAJF D THREAD DIRECTION

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Identified Secondary Address Coding (I/SAC) from Table 1 below, followed by the applicable Reply Code from Table 2 below. (e.g., AAJFIYDAAG; AAJFIADAAG*; AAJFI BDAAL*)*

Table 1

REPLY CODE

1Z

1E

1A

1D

1B

1Y

1C

REPLY (0261)

ALL CONNECTIONS

FIFTH CONNECTION

FIRST CONNECNTION

FOURTH CONNECTION

SECOND CONNECTION

SINGLE CONNECTION

THIRD CONNECTION

Table 2

FIIG T
Section Parts

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
AAG	LEFT-HAND
AAL	RIGHT-HAND

ALL (See Note Preceding MRCs CGLN and AHNC)*

BJHZ D SEAT

Definition: AN INDICATION OF WHETHER OR NOT A SEAT IS INCLUDED.

Reply Instructions: Enter the applicable Identified Secondary Address Coding (I/SAC) from Table 1 below, followed by the applicable Reply Code from Table 2 below. (e.g., BJHZ1YDB; BJHZ1ADB*; BJHZ1BDC*)*

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1E	FIFTH CONNECTION
1A	FIRST CONNECTION
1D	FOURTH CONNECTION
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRCS AJFY AND AJFZ: REPLY TO MRC AFJY OR AJFZ IF REPLY CODE B IS ENTERED FOR MRC BJHZ.

ALL (See Note Above and Preceding MRC CGLN)*

AJFY B SEAT ANGLE IN DEG

Definition: THE ANGLE OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS, EXPRESSED IN DEGREES.

FIG T
Section Parts

Reply Instructions: Enter the applicable Identified Secondary Address Coding (I/SAC) from the table below, followed by the numeric value. (e.g., AJFYIZB24.0; AJFYIAB24.0*; AJFYIBB32.0*)*

<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1E	FIFTH CONNECTION
1A	FIRST CONNECTION
1D	FOURTH CONNECTION
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

ALL* (See Note Preceding MRCs AJFY and CGLN)

AJFZ J SEAT RADIUS

Definition: THE RADIUS OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS.

Reply Instructions: Enter the applicable Identified Secondary Address Coding (I/SAC) from Tables 1 below, followed by the applicable Reply Codes from Tables 2 and 3 below, followed by the numeric value. (e.g., AJFZ1ZJAA37.000; AJFZ1YJLA250.0*; AJFZ1AJAB35.000\$\$JAC39.000*; AJFZ1AJAA30.000*; AJFZ1BJAB37.000\$\$JAC39.000*)*

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (0261)</u>
1Z	ALL CONNECTIONS
1E	FIFTH CONNECTION
1A	FIRST CONNECTION
1D	FOURTH CONNECTION
1B	SECOND CONNECTION
1Y	SINGLE CONNECTION
1C	THIRD CONNECTION

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 3</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

FIIG T
Section Parts

ALL*

CTTC J THREAD TOLERANCE CLASS

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.

Reply Instructions: Enter the applicable Reply Code from the table below followed by the designator. (e.g., CTTCJNTE6H*).

<u>REPLY CODE</u>	<u>REPLY (AN73)</u>
EXT	EXTERNAL
NTE	INTERNAL

ALL

CGLQ D BOLT HOLE FLATS SERRATIONS

Definition: AN INDICATION OF WHETHER OR NOT SERRATIONS ARE PROVIDED ON BOLT HOLE FLATS.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGLQDB*)

<u>REPLY CODE</u>	<u>REPLY (AB22)</u>
C	NOT PROVIDED
B	PROVIDED

ALL

CGLR D BOLT HOLE FLUID PASSAGE

Definition: AN INDICATION OF WHETHER OR NOT A BOLT HOLE FLUID PASSAGE IS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGLRDB*)

<u>REPLY CODE</u>	<u>REPLY (AB22)</u>
C	NOT PROVIDED
B	PROVIDED

FIIG T
Section Parts

SECTION: J

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED18024*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBR0000*; MATLDBR0000\$DST0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000*; SURFDAN0000\$DCDR000*)

ALL*

AETC	J	METALLIC HARDNESS RATING
------	---	--------------------------

Definition: A NUMERIC VALUE THAT REFLECTS THE HARDNESS OF A METALLIC ITEM WHEN USED IN CONJUNCTION WITH A HARDNESS RATING SCALE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AETCJARB40.0*; AETCJBRB35.0\$\$JCRB45.0*)

FIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

For items that do not require a rating, change the mode code to K and enter Reply Code N. (e.g., AETCKN*)

Table 1

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

Table 2

REPLY CODE

BN
RA
RB
RC
RD
RE
RF
RS

REPLY (AC26)

BRINELL
ROCKWELL A
ROCKWELL B
ROCKWELL C
ROCKWELL D
ROCKWELL E
ROCKWELL F
ROCKWELL SUPERFICIAL 15-N

JA, JB, JC*, JD*

AASG	D	CASEHARDENING INDICATOR
------	---	-------------------------

Definition: INDICATES WHETHER OR NOT A FERROUS ALLOY OBJECT HAS BEEN SUBJECTED TO A PROCESS WHEREBY THE OUTER PORTION IS MADE SUBSTANTIALLY HARDER THAN THE INNER PORTION OR CORE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AASGDA*)

REPLY CODE

A
B

REPLY (AA70)

CASEHARDENED
NOT CASEHARDENED

JA, JD

CPMS	J	HOSE/TUBE OUTSIDE DIAMETER FOR WHICH DESIGNED
------	---	---

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE HOSE OR TUBE FOR WHICH THE ITEM IS DESIGNED, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

FIIG T
Section Parts

APP
Key MRC Mode Code Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CPMSJAA0.750*; CPMSJAB0.745\$\$JAC0.755*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

JD

AJER J HOSE INSIDE DIAMETER FOR WHICH
DESIGNED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE HOSE FOR WHICH THE ITEM IS DESIGNED, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJERJAA0.250*; AJERJLA15.0*; AJERJAB0.125\$\$JAC0.375*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

JB

CHPR J TUBE INSIDE DIAMETER FOR WHICH

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

DESIGNED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE TUBE FOR WHICH THE ITEM IS DESIGNED, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CHPRJAA0.375*; CHPRJAB0.370\$\$JAC0.380*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

JC

APCN	A	COIL QUANTITY
------	---	---------------

Definition: THE NUMBER OF COILS INCLUDED ON THE ITEM.

Reply Instructions: Enter the numeric value. (e.g., APCNA10*)

JC

CWPX	J	COIL WIDTH
------	---	------------

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF THE COIL, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CWPXJAA30.000*; CWPXJLA25.4*; CWPXJAB29.000\$\$JAC30.000*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

FIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

JC

ABXG J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value, excluding terminals, mounting attachments, and tuning devices. (e.g., ABXGJAA8.000*; ABXGJLA25.4*; ABXGJAB7.890\$\$JAC8.000*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

JC

AARX J INSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AARXJAA1.380*; AARXJLA30.0*; AARXJAB1.484\$\$JAC1.516*)

Table 1

REPLY CODE

A

REPLY (AA05)

INCHES

FIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

	L		MILLIMETERS
--	---	--	-------------

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

JC

ABHE	J		OUTSIDE DIAMETER
------	---	--	------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE ITEM, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHEJAA1.380*; ABHEJLA35.5*; ABHEJAB1.250\$\$JAC1.312*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

JA, JB, JD

STYL	L		STYLE DESIGNATOR
------	---	--	------------------

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ITEM.

Reply Instructions: Enter the group designator and applicable style number from [Appendix B](#), Reference Drawing Group J, K, L, M, T, or V. (e.g., STYLLK2*)

FIIG T
Section Parts

SECTION: K

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED03778*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDAL0000*; MATLDAL0000\$\$DST0000*; MATLDAL0000\$DST0000*)

NOTE FOR MRC CGMB: REPLY TO THIS MRC IF REPLY CODE PC0000 IS ENTERED FOR MRC MATL.

ALL* (See Note Above)

CGMB	D	INGESTED LIQUID APPROVAL
------	---	--------------------------

Definition: AN INDICATION OF WHETHER OR NOT INGESTED LIQUID USE IS APPROVED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGMBDB*)

<u>REPLY CODE</u>	<u>REPLY (AM27)</u>
B	APPROVED
C	NOT APPROVED

NOTE FOR MRC BZRJ: REPLY TO THIS MRC IF REPLY CODE B IS ENTERED FOR MRC CGMB.

ALL* (See Note Above)

BZRJ	G	INGESTED LIQUID USE APPROVING
------	---	-------------------------------

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
AGENCY			
Definition: THE NAME OF THE AGENCY APPROVING THE USE OF INGESTED LIQUID(S).			
Reply Instructions: Enter the reply in clear text. (e.g., BZRJGNATIONAL SANITATION TESTING LABORATORY*)			
ALL*			
	SURF	D	SURFACE TREATMENT
Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPE OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 2. (e.g., SURFDAN0000*; SURFDAN0000\$DCDR000*; SURFDAN0000\$DCDR000*)			
ALL			
	STYL	L	STYLE DESIGNATOR
Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ITEM.			
Reply Instructions: Enter the group designator and applicable style number from Appendix B , Reference Drawing Group N. (e.g., STYLLN9*)			
ALL			
	AWMG	A	EXTERNAL THREAD SIZE
Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER MEASUREMENT SCALE OF AN EXTERNALLY THREADED ITEM.			
Reply Instructions: Enter the thread size.			
(e.g., AWMGA1-11-1/2*)			
ALL			
	CGMD	D	EXTERNAL SCREW THREAD SERIES DESIGNATOR

FIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF EXTERNAL SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3. (e.g., CGMDDNP*)

See Appendix C, Table 1, for determination of reply.

ALL

CGMF	D	EXTERNAL THREAD DIRECTION
------	---	---------------------------

Definition: THE DIRECTION OF THE EXTERNAL THREAD WHEN VIEWED AXIALLY.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGMFDAAL*)

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
AAG	LEFT-HAND
AAL	RIGHT-HAND

ALL

AWMH	A	INTERNAL THREAD SIZE
------	---	----------------------

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER MEASUREMENT SCALE OF AN INTERNALLY THREADED ITEM.

Reply Instructions: Enter the thread size.

(e.g., AWMHA3/8-18*)

ALL

CGMH	D	INTERNAL SCREW THREAD SERIES DESIGNATOR
------	---	---

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF INTERNAL SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A DIAMETER.

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3. (e.g., CGMHDNP*)

See Appendix C, Table 1, for determination of reply.

ALL

CGMJ D INTERNAL THREAD DIRECTION

Definition: THE DIRECTION OF THE INTERNAL THREAD WHEN VIEWED AXIALLY.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGMJDAAL*)

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
AAG	LEFT-HAND
AAL	RIGHT-HAND

ALL

CDPG J WORKING PRESSURE AND SERVICE TYPE

Definition: A MEASUREMENT OF THE WORKING PRESSURE AND THE TYPE OF SERVICE FOR WHICH RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1, 2, and 3 below, followed by the numeric value. (e.g., CDPGJFBAAABK3000.0; CDPGJFBBAABK3000.0\$\$JFBCAABK4000.0*;*

For multiple service types use AND coding (\$\$) for temperature tolerance, if applicable, entering in Table 3 sequence. For items having a pressure but no service type, enter the applicable Reply Codes from Tables 1 and 2 below, followed by Reply Code AAAA from Table 3 and the numeric value. (e.g., CDPGJFBAAAAA500.0)*

(CDPGJFBBAABA480.0\$\$JFBCAABA520.0;*

CDPGJFBBAABK750.0\$\$JFBCAABK780.0)*

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AG67)</u>
EY	KILOGRAMS PER SQUARE CENTIMETER
LJ	MEGAPASCALS
FB	POUNDS PER SQUARE INCH

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

Table 3

REPLY CODE

AABA
AAAA
AABK
AABE
AABN
AABP
AAAS
AABQ
AABR
AABS
AAAG

REPLY (AB75)

AIR
ANY ACCEPTABLE
GAS
HYDRAULIC OIL
LIQUID
NITROGEN, GASEOUS
OIL
OXYGEN, GASEOUS
STEAM
STEAM, SATURATED
WATER

ALL

CDPH	J	WORKING TEMP AND SERVICE TYPE
------	---	-------------------------------

Definition: A MEASUREMENT OF THE WORKING TEMPERATURE AND THE TYPE OF SERVICE FOR WHICH RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1, 2, and 3 below, followed by the numeric value. (e.g., CDPHJGWAAABA50.0; CDPHJGWBAABA45.0\$\$JGWCAABA55.0*)*

For multiple service types, use AND coding (\$\$) for pressure tolerance, if applicable, entering in Table 3 sequence. For items having a temperature but no service type, enter the applicable Reply Codes from Tables 1 and 2 below, followed by Reply Code AAAA from Table 3 and the numeric value. (e.g., CDPHJGWAAAAA150.0)*

*CDPHJGWBAABA140.0\$\$JGWCAABA160.0**

*CDPHJGWBAABK190.0\$\$JGWCAABK210.0**

Table 1

REPLY CODE

GT
GW

REPLY (AG67)

DEG CELSIUS
DEG FAHRENHEIT

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

Table 3

REPLY CODE

AABA
AAAA
AABK
AABE
AABN
AABP
AAAS
AABQ
AABR
AABS
AAAG

REPLY (AB75)

AIR
ANY ACCEPTABLE
GAS
HYDRAULIC OIL
LIQUID
NITROGEN, GASEOUS
OIL
OXYGEN, GASEOUS
STEAM
STEAM, SATURATED
WATER

FIIG T
Section Parts

SECTION: L

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED18018*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDAL0000*; MATLDAL0000\$\$DST0000*; MATLDAL0000\$DST0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDZN0000*; SURFDAN0000\$\$DCD0000*; SURFDAN0000\$DCD0000*)

ALL

CGMK	A	MALE END THREAD SIZE
------	---	----------------------

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER MEASUREMENT SCALE OF A THREADED MALE END.

Reply Instructions: Enter the thread size. (e.g., CGMKA5/16-24*)

ALL

CGML	D	MALE END SCREW THREAD SERIES DESIGNATOR
------	---	---

FIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF MALE END SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A DIAMETER.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3. (e.g., CGMLDNP*)

NOTE FOR MRCS BTFJ AND CGMM: REPLY TO MRC BTFJ IF A STANDARD THREAD IS ENTERED FOR MRC CGML. REPLY TO MRC CGMM IF A NONSTANDARD THREAD IS ENTERED FOR MRC CGML.

ALL* (See Note Above)

BTFJ	A	MALE END THREAD CLASS
------	---	-----------------------

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND THE EXTERNAL LOCATION OF THE MALE END OF THE THREAD.

Reply Instructions: Enter the thread class. (e.g., BTFJA3A*)

ALL* (See Note Preceding MRC BTFJ)

CGMM	J	MALE END THREAD PITCH DIAMETERS
------	---	---------------------------------

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A MALE END STRAIGHT SCREW THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede all values with a P. (e.g., CGMMJAP1.7110/P1.7160*)

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

ALL

CGMN	D	MALE END THREAD DIRECTION
------	---	---------------------------

Definition: THE DIRECTION OF THE MALE END THREAD WHEN VIEWED AXIALLY.

FIIG T
Section Parts

APP	Key	MRC	Mode Code	Requirements
-----	-----	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGMNDAAAL*)

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
AAG	LEFT-HAND
AAL	RIGHT-HAND

ALL

CGMP J MALE END THREAD LENGTH

Definition: A MEASUREMENT OF THE EXTENT OF MALE END COMPLETE (FULL) THREADS MEASURED ALONG A LINE PARALLEL TO THE LONGITUDINAL AXIS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CGMPJAA0.350*; CGMPJAB0.348\$\$JAC0.352*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL

CGMQ A FEMALE END THREAD SIZE

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER MEASUREMENT SCALE OF A THREADED FEMALE END.

Reply Instructions: Enter the thread size.

(e.g., CGMQA1/8-27*)

ALL

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	CGMR	D	FEMALE END SCREW THREAD SERIES DESIGNATOR

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF FEMALE END THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A DIAMETER.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3. (e.g., CGMRDNP*)

NOTE FOR MRCS BTFL AND CGMS: REPLY TO MRC BTFL IF A STANDARD THREAD IS ENTERED FOR MRC CGMR. REPLY TO MRC CGMS IF A NONSTANDARD THREAD IS ENTERED FOR MRC CGMR.

ALL* (See Note Above)

BTFL	A	FEMALE END THREAD CLASS
------	---	-------------------------

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND THE INTERNAL LOCATION OF THE FEMALE END OF THE THREAD.

Reply Instructions: Enter the thread class. (e.g., BTFLA3B*)

ALL* (See Note Preceding MRC BTFL)

CGMS	J	FEMALE END THREAD PITCH DIAMETERS
------	---	-----------------------------------

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A FEMALE END STRAIGHT SCREW THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede all values with a P. (e.g., CGMSJAP1.7110/P1.7160*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL

CGMT	D	FEMALE END THREAD DIRECTION
------	---	-----------------------------

FIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Definition: THE DIRECTION OF THE FEMALE END THREAD WHEN VIEWED AXIALLY.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGMTDAAL*)

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
AAG	LEFT-HAND
AAL	RIGHT-HAND

ALL

CGMW	J	FEMALE END THREAD LENGTH
------	---	--------------------------

Definition: A MEASUREMENT OF THE EXTENT OF FEMALE END COMPLETE (FULL) THREADS MEASURED ALONG A LINE PARALLEL TO THE LONGITUDINAL AXIS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CGMWJAA0.350*; CGMWJAB0.348\$\$JAC0.352*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

NOTE FOR MRC CDPM: IF THE INSIDE DIAMETER OF AN ITEM IS COUNTERBORED AND/OR COUNTERSUNK ON BOTH ENDS, ENTER REPLIES IN THE FOLLOWING SEQUENCE USING AND (\$\$) CODING: 1. THREAD END COUNTERBORE 2. WRENCHING HEAD END COUNTERBORE 3. THREAD END COUNTERSINK 4. WRENCHING HEAD END COUNTERSINK IF COUNTERBORED AND COUNTERSUNK ON ONE END ONLY, ENTER REPLIES FOR COUNTERBORE FIRST.

ALL* (See Note Above)

FIG T
Section Parts

CDPM D FEMALE END CHARACTERISTIC

Definition: AN INDICATION OF THE CHARACTERISTIC(S) OF THE FEMALE END.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CDPMDAC; CDPMDAB\$\$SAC*)*

REPLY CODE
AB
AC

REPLY (AH37)
COUNTERBORED
COUNTERSUNK

REPLY TO MRCS CDPQ, ABMZ, AEJZ, AND AATE IF REPLY CODE AC IS ENTERED FOR MRC CDPM. FOR MULTIPLE REPLIES TO MRCS ABMZ, AEJZ, AND AATE, USE SECONDARY ADDRESS CODING ENTERING IN THE SAME SEQUENCE AS MRC CDPM. NOTE FOR MRCS CDPQ, ABMZ, AEJZ, AND AATE: REPLY TO MRCS CDPQ, ABMZ, AND AEJZ IF REPLY CODE AB IS ENTERED FOR MRC CDPM. REPLY TO MRCS CDPQ, ABMZ, AEJZ, AND AATE IF REPLY CODE AC IS ENTERED FOR MRC CDPM. FOR MULTIPLE REPLIES TO MRCS ABMZ, AEJZ, AND AATE, USE SECONDARY ADDRESS CODING ENTERING IN THE SAME SEQUENCE AS MRC CDPM.

ALL* (See Note Above)

CDPQ G COUNTERBORE/COUNTERSINK LOCATION

Definition: INDICATES THE LOCATION OF THE COUNTERBORE AND/OR COUNTERSINK ON THE ITEM.

Reply Instructions: Enter the reply in clear text. (e.g., CDPQGEXTERNALLY THREADED END)*

Separate multiple replies with a semicolon, entering in the same sequence as MRC CDPM. (e.g., CDPQGEXTERNALLY THREADED END; WRENCHING HEAD TYPE*)

ALL* (See Note Preceding MRC CDPQ)

ABMZ J DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMZJAA0.438; ABMZJAB0.436\$\$JAC0.440*)*

Table 1
REPLY CODE

REPLY (AA05)

FIG T
Section Parts

A	INCHES
L	MILLIMETERS

Table 2

REPLY CODE

REPLY (AC20)

A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL* (See Note Preceding MRC CDPQ)

AEJZ J DEPTH

Definition: A LINEAR MEASUREMENT FROM THE SURFACE TO A SPECIFIED INNER POINT ON AN ITEM, IN DISTINCTION FROM HEIGHT.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AEJZJAA0.500; AEJZJAB0.490\$\$JAC0.510*)*

Table 1

REPLY CODE

REPLY (AA05)

A	INCHES
L	MILLIMETERS

Table 2

REPLY CODE

REPLY (AC20)

A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL* (See Note Preceding MRC CDPQ)

AATE B CHAMFER ANGLE IN DEG

Definition: THE MEASUREMENT OF THE CHAMFER ANGLE, EXPRESSED IN DEGREES.

Reply Instructions: Enter the numeric value. (e.g., AATEB45.0; AATEB45.0\$\$B60.0*)*

ALL

ACSL D WRENCHING FACILITY SHAPE

Definition: THE GEOMETRIC SHAPE OF THE FACILITY UTILIZED TO ASSEMBLE OR DISASSEMBLE THE ITEM.

FIIG T
Section Parts

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACSLDAH*H*)

<u>REPLY CODE</u>	<u>REPLY (AD07)</u>
BDS	FLATTED
AHH	HEXAGON
BDT	OCTAGON
APL	ROUND
ASL	SQUARE

NOTE FOR MRCS CDPY, ASDB, AND ABNM: REPLY TO MRC CDPY AND ABNM IF REPLY CODE APL IS ENTERED FOR MRC ACSL. REPLY TO MRCS ASDB AND ABNM IF OTHER THAN REPLY CODE APL IS ENTERED FOR MRC ACSL.

ALL* (See Note Above)

CDPY J WRENCHING FACILITY DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE WRENCHING PORTION, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CDPYJAA1.500*; CDPYJAB1.490\$\$JAC1.510*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL* (See Note Preceding MRC CDPY)

ASDB J WIDTH ACROSS FLATS

Definition: THE SHORTEST STRAIGHT LINE BETWEEN FLATS, PERPENDICULAR TO THE HEIGHT.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ASDBJAA1.750*; ASDBJAB1.740\$\$JAC1.760*)

FIIG T
Section Parts

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC CDPY)

ABNM J THICKNESS

Definition: A MEASUREMENT OF THE SMALLEST DIMENSION OF AN ITEM, IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABNMJAA0.125*; ABNMJAB0.120\$\$JAC0.130*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

ABHP J OVERALL LENGTH

Definiton: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA0.844*; ABHPJAB0.840\$\$JAC0.848*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

FIG T
Section Parts

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

FIIG T
Section Parts

SECTION: M

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED03784*)

ALL

MATL	D	MATERIAL
------	---	----------

Definiton: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDALC000*; MATLDAL0000\$DST0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000*; SURFDAN0000\$DCDR000*)

ALL

STYL	L	STYLE DESIGNATOR
------	---	------------------

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ITEM.

Reply Instructions: Enter the group designator and applicable style number from [Appendix B](#), Reference Drawing Group P. (e.g., STYLLP2*)

ALL

ACSV	J	TUBE OUTSIDE DIAMETER FOR WHICH
------	---	---------------------------------

FIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

DESIGNED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE TUBE FOR WHICH DESIGNED, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACSVJAA0.250*; ACSVJLA15.0*; ACSVJAB0.245\$\$JAC0.255*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL

CGMX	D	INTEGRAL MOUNTING STUD
------	---	------------------------

Definiton: AN INDICATION OF WHETHER OR NOT AN INTEGRAL MOUNTING STUD IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGMXDB*)

REPLY CODE

B
C

REPLY (AA49)

INCLUDED
NOT INCLUDED

NOTE FOR MRCS AGMZ, AQLF, AJYP, ABET, AND AAJF: REPLY TO THESE MRCS IF REPLY CODE B IS ENTERED FOR MRC CGMX.

ALL* (See Note Above)

AGMZ	J	STUD OVERALL LENGTH
------	---	---------------------

FIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AGMZJAA1.250*; AGMZJLA25.5*; AGMZJAB1.240\$JAC1.260*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC AGMZ)

AQLF	A	STUD THREAD SIZE
------	---	------------------

Definition: DESIGNATES THE STUD THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the thread size.

(e.g., AQLFA1/4-20*)

ALL* (See Note Preceding MRC AGMZ)

AJYP	D	SCREW THREAD SERIES DESIGNATOR
------	---	--------------------------------

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3. (e.g., AJYPDNP*)

NOTE FOR MRCS AAJD AND AAJE: REPLY TO MRC AAJD IF A STANDARD THREAD IS ENTERED FOR MRC AJYP. REPLY TO MRC AAJE IF A NONSTANDARD THREAD IS ENTERED FOR MRC AJYP.

FIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

ALL* (See Note Above)

AAJD	A	THREAD CLASS
------	---	--------------

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.

Reply Instructions: Enter the thread class. (e.g., AAJDA2A*)

ALL* (See Note Preceding MRC AAJD)

AAJE	J	THREAD PITCH DIAMETERS
------	---	------------------------

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede all values with a P. (e.g., AAJEJAP1.7110/P1.7160*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL* (See Note Preceding MRC AGMZ)

ABET	J	THREAD LENGTH
------	---	---------------

Definition: A MEASUREMENT OF THE EXTENT OF THREADS INCLUDING INCOMPLETE THREADS, ALONG A LINE PARALLEL TO THE LONGITUDINAL AXIS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., ABETJA4.000*; ABETJL100.0*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL* (See Note Preceding MRC AGMZ)

AAJF	D	THREAD DIRECTION
------	---	------------------

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AAJFDAAL*)

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
AAG	LEFT-HAND
AAL	RIGHT-HAND

ALL*

CTTC J THREAD TOLERANCE CLASS

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the designator. (e.g., CTTCJNTE6H*).

<u>REPLY CODE</u>	<u>REPLY (AN73)</u>
EXT	EXTERNAL
NTE	INTERNAL

ALL

CDPG J WORKING PRESSURE AND SERVICE TYPE

Definition: A MEASUREMENT OF THE WORKING PRESSURE AND THE TYPE OF SERVICE FOR WHICH RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1, 2, and 3 below, followed by the numeric value. (e.g., CDPGJFBAAABA500.0*; CDPGJFBBAAABA450.0\$\$JFBCAABA550.0*)

For multiple service types use AND coding (\$\$) for pressure tolerance. For items having a pressure but no service type, enter the applicable Reply Codes from Tables 1 and 2 below, followed by Reply Code AAAA from Table 3 and the numeric value. (e.g., CDPGJFBAAAAA500.0)*

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AG67)</u>

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		EY	KILOGRAMS PER SQUARE CENTIMETER
		LJ	MEGAPASCALS
		FB	POUNDS PER SQUARE INCH

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

Table 3

<u>REPLY CODE</u>	<u>REPLY (AB75)</u>
AABA	AIR
AAAA	ANY ACCEPTABLE
AABK	GAS
AAAS	OIL
AABR	STEAM
AAAG	WATER

ALL

CDPH J WORKING TEMP AND SERVICE TYPE

Definition: A MEASUREMENT OF THE WORKING TEMPERATURE AND THE TYPE OF SERVICE FOR WHICH RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1, 2, and 3 below, followed by the numeric value. (e.g., CDPHJGWAAABA150.0*; CDPHJGWBAABA140.0\$\$JGWCAABA160.0*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AG67)</u>
GT	DEG CELSIUS
GW	DEG FAHRENHEIT

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

Table 3

<u>REPLY CODE</u>	<u>REPLY (AB75)</u>
-------------------	---------------------

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		AABA	AIR
		AAAA	ANY A CCEPTABLE
		AABK	GAS
		AAAS	OIL
		AABR	STEAM
		AAAG	WATER

FIIG T
Section Parts

SECTION: P

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED05071*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDAL0000*; MATLDAL0000\$\$DST0000*; MATLDAL0000\$DST0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDZNA000*; SURFDAN0000\$DCD0000*; SURFDAN0000\$DCD0000*)

ALL

ADTS	D	CONSTRUCTION TYPE
------	---	-------------------

Definition: INDICATES WHETHER THE ITEM IS OF ONE OR TWO PIECE CONSTRUCTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ADTSDAAJ*)

REPLY CODE

AAJ

AAN

REPLY (AC66)

ONE PIECE

TWO PIECE

FIIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

ALL

ABHP J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA10.000*; ABHPJLA254.0*; ABHPJAB9.500\$\$JAC10.500*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

CGMZ G PIPE SIZE ACCOMMODATED

Definition: DESIGNATES THE PIPE SIZE THE ITEM WILL ACCOMMODATE.

Reply Instructions: Enter the reply in clear text. (e.g., CGMZG4 IN. OD TUBING SIZE*)

Separate multiple replies with a semicolon.

(e.g., CGMZG4 IN. OD TUBING SIZE; 3-1/2 IN. NOM CAST IRON PIPE SIZE*)

ALL

AGFC D GASKET

Definition: AN INDICATION OF WHETHER OR NOT A GASKET IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AGFCDB*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			
		<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
		B	INCLUDED
		C	NOT INCLUDED

ALL*

ACKL D MEDIA FOR WHICH DESIGNED

Definition: THE TYPE OF SERVICE WITH WHICH THE ITEM IS DESIGNED TO BE USED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ACKLDAABK*; ACKLDAABK\$\$DAAAG*)

<u>REPLY CODE</u>	<u>REPLY (AB75)</u>
AABK	GAS
AAAD	GASOLINE
AADF	GENERAL
AADG	LIGHT PETROLEUM
AAAG	WATER

FIIG T
Section Parts

SECTION: Q

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED04135*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBR0000*; MATLDBR0000\$\$DST0000*; MATLDBR0000\$DST0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000*; SURFDAN0000\$\$DPN0000*; SURFDAN0000\$DPN0000*)

ALL

AWQD	J	STRENGTH RATING
------	---	-----------------

Definition: THE LOAD IN TENSION APPLIED IN A LONGITUDINAL DIRECTION OR THE LOAD THAT CAN BE APPLIED IN A PLANE PERPENDICULAR TO THE AXIAL CENTERLINE WITHOUT RUPTURE OR PERMANENT DEFORMATION OF THE MATERIAL.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AWQDJVAB30000.0*; AWQDJVAB30000.0\$\$JVAC40000.0*)

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

For items that do not require a rating, change the mode code to K and enter Reply Code N. (e.g., AWQDKN*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
S	MEGAPASCALS
R	NEWTONS PER SQUARE MILLIMETER
V	POUNDS PER SQUARE INCH

Table 2

<u>REPLY CODE</u>	<u>REPLY (AM45)</u>
AB	MINIMUM TENSILE
AC	MINIMUM YIELD

ALL*

ALME J MATERIAL HARDNESS RATING

Definition: A NUMERIC VALUE THAT REFLECTS THE HARDNESS OF THE MATERIAL WHEN USED IN CONJUNCTION WITH A HARDNESS RATING SCALE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ALMEJRBA40.0*; ALMEJRBB35.0\$JRBC45.0*)

For items that do not require a rating, change the mode code to K and enter Reply Code N. (e.g., ALMEKN*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AC26)</u>
RA	ROCKWELL A
RB	ROCKWELL B
RC	ROCKWELL C
RD	ROCKWELL D
RE	ROCKWELL E

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

FIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
ALL			
	BYJF	D	SEAT TYPE
Definition: INDICATES THE TYPE OF SEAT PROVIDED.			
Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BYJFDEHS*)			
		<u>REPLY CODE</u>	<u>REPLY (AK54)</u>
		AQT	ANGLE
		EHS	BALL
		EHT	GASKET
		EHW	RECESSED FACE
		EHX	STRAIGHT FACE
ALL*			
	CGNB	D	GROUND JOINT SEAT MATERIAL
Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE GROUND JOINT SEAT IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.			
Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 1. (e.g., CGNBDS T0000*; CGNBDS T0000\$DAL0000*)			
ALL*			
	AJFY	B	SEAT ANGLE IN DEG
Definition: THE ANGLE OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS, EXPRESSED IN DEGREES.			
Reply Instructions: Enter the numeric value. (e.g., AJFYB30.0*)			
ALL*			
	AJFZ	J	SEAT RADIUS
Definition: THE RADIUS OF THE END SURFACE UPON WHICH THE MATED SURFACE SEATS.			

FIIG T
Section Parts

APP										
Key	MRC		Mode Code							Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJFZJAA0.625*; AJFZJAB0.620\$\$JAC0.630*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL

AWZY D END CONNECTION TYPE

Definition: INDICATES THE TYPE OF END CONNECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWZYDBG*)

REPLY CODE

PN
PP
BG
NQ

REPLY (AB76)

BRAZED
SWEAT SOLDER
THREADED
WELDED

NOTE FOR MRCS ABUJ, AJYP, AAJF, BBMM, AAGN, AQRX, AND CGNC: REPLY TO MRCS ABUJ, AJYP, AAJF, AND BBMM IF REPLY CODE BG IS ENTERED FOR MRC AWZY. REPLY TO MRC AAGN OR AQRX, AND CGNC IF OTHER THAN REPLY CODE BG IS ENTERED FOR MRC AWZY.

ALL* (See Note Above)

ABUJ A THREAD SIZE

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the thread size.

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

(e.g., ABUJA2-11-1/2*)

ALL* (See Note Preceding MRC ABUJ)

AJYP	D	SCREW THREAD SERIES DESIGNATOR
------	---	--------------------------------

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3. (e.g., AJYPDNP*)

ALL* (See Note Preceding MRC ABUJ)

AAJF	D	THREAD DIRECTION
------	---	------------------

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AAJFDAAG*)

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
AAG	LEFT-HAND
AAL	RIGHT-HAND

ALL* (See Note Preceding MRC ABUJ)

BBMM	D	SCREW THREAD LOCATION
------	---	-----------------------

Definition: INDICATES THE LOCATION OF THE SCREW THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BBMMDABY*)

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
ABY	EXTERNAL
ABX	INTERNAL

FIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

ALL* (See Note Preceding MRC ABUJ)

AAGN J NOMINAL PIPE SIZE DESIGNATION

Definition: THE INDUSTRIAL DESIGNATION OR TERM USED TO DEFINE THE DIAMETER OF PIPE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AAGNJA1.000*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL* (See Note Preceding MRC ABUJ)

AQRX J TUBING OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE TUBING, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AQRXJAA0.500*; AQRXJAB0.490\$\$JAC0.510*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL* (See Note Preceding MRC ABUJ)

CGNC D MALE END FEATURE

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Definition: AN INDICATION OF WHETHER OR NOT A MALE END FEATURE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGNCDB*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

QB

CGND	A	UNION END THREAD SIZE
------	---	-----------------------

Definition: DESIGNATES THE UNION END THREAD DIAMETER AND NUMBER OF THREADS PER MEASUREMENT SCALE.

Reply Instructions: Enter the thread size.

(e.g., CGNDA3-3/4-12*)

QB

CGNF	D	UNION END SCREW THREAD SERIES DESIGNATOR
------	---	---

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF UNION END SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A DIAMETER.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3. (e.g., CGNFDNP*)

QB

CGNG	D	UNION END THREAD DIRECTION
------	---	----------------------------

Definition: THE DIRECTION OF THE UNION END THREAD WHEN VIEWED AXIALLY.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGNGDAAL*)

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
-------------------	---------------------

FIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
		AAG	LEFT-HAND
		AAL	RIGHT-HAND

QB

CGNH D BULKHEAD FEATURE

Definition: AN INDICATION OF WHETHER OR NOT A BULKHEAD FEATURE IS PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGNHDB*)

<u>REPLY CODE</u>	<u>REPLY (AB22)</u>
C	NOT PROVIDED
B	PROVIDED

QA

CGNJ D NUT RETAINING FLANGE

Definition: AN INDICATION OF WHETHER OR NOT A NUT RETAINING FLANGE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CGNJDB*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRCS AHTC, ABKU, AND CGNK: REPLY TO MRCS AHTC AND ABKU IF REPLY CODE B IS ENTERED FOR MRC CGNJ. REPLY TO MRC CGNK IF REPLY CODE C IS ENTERED FOR MRC CGNJ.

QA* (See Note Above)

AHTC J FLANGE OUTSIDE DIAMETER

FIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A FLANGE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AHTCJAA1.500*; AHTCJAB1.480\$\$JAC1.520*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

QA* (See Note Preceding MRC AHTC)

ABKU	J	FLANGE THICKNESS
------	---	------------------

Definition: A MEASUREMENT OF THE SMALLEST DIMENSION OF A FLANGE, IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKUJAA0.250*; ABKUJAB0.245\$\$JAC0.255*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

QA* (See Note Preceding MRC AHTC)

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
CGNK	J		UNION OUTSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE UNION, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CGNKJAA1.750*; CGNKJAB1.740\$\$JAC1.760*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

ABHP	J	OVERALL LENGTH
------	---	----------------

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA2.000*; ABHPJAB1.990\$\$JAC2.010*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL

CDPG	J	WORKING PRESSURE AND SERVICE TYPE
------	---	-----------------------------------

Definition: A MEASUREMENT OF THE WORKING PRESSURE AND THE TYPE OF SERVICE FOR WHICH RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1, 2, and 3 below, followed by the numeric value.

(e.g., CDPGJFBAAABA3000.0; CDPGJFBBAABA3000.0\$\$JFBCAABA3100.0*)*

Table 1

<u>REPLY CODE</u>	<u>REPLY (AG67)</u>
EY	KILOGRAMS PER SQUARE CENTIMETER
LJ	MEGAPASCALS
LV	NEWTONS PER SQUARE MILLIMETER
FB	POUNDS PER SQUARE INCH

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

Table 3

<u>REPLY CODE</u>	<u>REPLY (AB75)</u>
AABA	AIR
AAAA	ANY ACCEPTABLE
AADL	COLD WATER
AABK	GAS
AAAD	GASOLINE
AABE	HYDRAULIC OIL
AAAS	OIL
AADD	OXYGEN
AABR	STEAM
AAAG	WATER

FIIG T
Section Parts

SECTION: R

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED17666*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDRCB000*; MATLDRC0000\$DRCA000*; MATLDRC0000\$\$DRCA000*)

ALL

AARN	D	FABRICATION METHOD
------	---	--------------------

Definition: THE PROCESS USED IN MANUFACTURING THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AARNDAM*; AARNDGR\$DAM*)

<u>REPLY CODE</u>	<u>REPLY (AA62)</u>
GR	EXTRUDED
AM	MOLDED

ALL

STYL	L	STYLE DESIGNATOR
------	---	------------------

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ITEM.

Reply Instructions: Enter the group designator and applicable style number from [Appendix B](#), Reference Drawing Group R. (e.g., STYLLR2*)

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
<hr/>			

ALL

BMJT J DUROMETER HARDNESS RATING

Definition: A NUMERIC VALUE THAT REFLECTS THE DUROMETER SCALE
HARDNESS RATING OF A NONMETALLIC ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by
the numeric value. (e.g., BMJTJA80.0*; BMJTJB80.0\$JC90.0*)

For items that do not require a rating, change the mode code to K and enter Reply
Code N. (e.g., BMJTKN*)

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL

ALQM B DENSITY RATING

Definition: AN INDICATION OF THE RATED DENSITY OF THE ITEM.

Reply Instructions: Enter the numeric value. (e.g., ALQMB80.0*)

For items that do not require a rating, change the mode code to K and enter Reply
Code N. (e.g., ALQMKN*)

FIIG T
Section Parts

SECTION: S

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED11468*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDS T0000*; MATLDAL0000\$DST0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDZN0000*; SURFDAN0000\$DZN0000*)

ALL

ABQK	L	END STYLE
------	---	-----------

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE END.

Reply Instructions: Enter the group designator and applicable style number from [Appendix B](#), Reference Drawing Group S. (e.g., ABQKLS3*)

For multiple replies use AND (\$\$) coding entering in ascending sequence. (e.g., ABQKLS3; ABQKLS5\$\$LS6*)*

FIIG T
Section Parts

APP				
Key	MRC	Mode Code	Requirements	

NOTE FOR MRCS BCCH, AXPW, CGNL, CGNM, AND CGMC: USE AND (\$\$) CODING FOR THESE MRCS ENTERING A REPLY FOR EACH END STYLE IN THE SAME SEQUENCE AS MRC ABQK.

ALL (See Note Above)

BCCH	J	END OUTSIDE DIAMETER
------	---	----------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE END, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., BCCHJAA12.500; BCCHJLA317.5*; BCCHJAB12.400\$\$JAC12.600*)*

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL (See Note Preceding MRC BCCH)

AXPW	J	END THICKNESS
------	---	---------------

Definition: A MEASUREMENT OF THE SMALLEST DIMENSION OF THE END, IN DISTINCTION FROM LENGTH OR WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AXPWJAA0.688; AXPWJLA152.4*; AXPWJAB0.684\$\$JAC0.692*)*

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

FIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL (See Note Preceding MRC BCCH)

CGNL A END BOLT HOLE QUANTITY

Definition: THE NUMBER OF BOLT HOLES PROVIDED ON THE END OF THE ITEM.

Reply Instructions: Enter the quantity. (e.g., CGNLA8; CGNLA3\$\$A4)*

ALL (See Note Preceding MRC BCCH)

CGNM J END BOLT HOLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE END BOLT HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CGNMJAA1.125; CGNMJLA27.9*; CGNMJAB1.115\$\$JAC1.135*)*

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL (See Note Preceding MRC BCCH)

CGMC J END BOLT CIRCLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN END BOLT CIRCLE, AND TERMINATES AT THE CIRCUMFERENCE.

FIIG T
Section Parts

APP									
Key	MRC		Mode Code						Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CGMCJAA5.500; CGMCJAB5.450\$\$JAC5.550*)*

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL

AAGN J NOMINAL PIPE SIZE DESIGNATION

Definition: THE INDUSTRIAL DESIGNATION OR TERM USED TO DEFINE THE DIAMETER OF PIPE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AAGNJA10.000*)

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

ALL

ABHP J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA0.625*; ABHPJAB0.620\$\$JAC0.630*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL*

BBMW	D	LIFTING FACILITY
------	---	------------------

Definition: THE FACILITY PROVIDED FOR LIFTING THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BBMW D HM*)

REPLY CODE

HM
FJ

REPLY (AC55)

EAR
RING

NOTE FOR MRCS NMBR, ACVW, AAUB ACVU, AND AWHT: REPLY TO MRCS NMBR, ACVW, AND AAUB, IF REPLY CODE HM IS ENTERED FOR MRC BBMW. REPLY TO MRCS NMBR, ACVU, AND AWHT IF REPLY CODE FJ IS ENTERED FOR MRC BBMW.

ALL* (See Note Above)

NMBR	A	QUANTITY
------	---	----------

Definition: A NUMERIC VALUE WHICH REPRESENTS A POSITIVE WHOLE VALUE WITHOUT REGARD TO ANY UNIT OF MEASURE.

Reply Instructions: Enter the quantity. (e.g., NMBR A 2*)

ALL* (See Note Preceding MRC NMBR)

ACVW	J	STOCK THICKNESS
------	---	-----------------

Definition: A MEASUREMENT OF THE SMALLEST DIMENSION OF THE STOCK, IN DISTINCTION FROM LENGTH OR WIDTH.

FIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACVWJAA1.000*; ACVWJAB0.990\$\$JAC1.010*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC NMBR)

AAUB

J

HOLE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAUBJAA2.000*; AAUBJAB1.980\$\$JAC2.020*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC NMBR)

ACVU

J

STOCK DIAMETER

FIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE STOCK, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACVUJAA1.000*; ACVUJAB0.990\$\$JAC1.010*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC NMBR)

AWHT

J

RING INSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR RING, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AWHTJAA4.000*; AWHTJAB3.975\$\$JAC4.025*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

FIIG T
Section Parts

SECTION: T

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED04199*)

ALL

APGF	D	DESIGN TYPE
------	---	-------------

Definition: INDICATES THE DESIGN TYPE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APGFDEJA*)

<u>REPLY CODE</u> EHZ EJA DHK EJB	<u>REPLY (AK54)</u> CORRUGATED ELEMENT DIAPHRAGM SLIP SPOOL
---	---

NOTE FOR MRC CHLN: REPLY TO THIS MRC IF REPLY CODE EHZ IS ENTERED FOR MRC APGF.

ALL* (See Note Above)

CHLN	D	EQUALIZATION CHARACTERISTIC
------	---	-----------------------------

Definition: AN INDICATION OF THE EQUALIZATION CHARACTERISTIC(S) OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CHLNDEJE*)

<u>REPLY CODE</u> EJD EJE	<u>REPLY (AK54)</u> NONEQUALIZING SELF-EQUALIZING
---------------------------------	---

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL

AQNE	D	JOINT TYPE
------	---	------------

Definition: INDICATES THE TYPE OF JOINT(S) ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AQNEDAAF*)

<u>REPLY CODE</u>	<u>REPLY (AL19)</u>
AAG	DOUBLE
AAF	SINGLE

ALL*

BMHW	D	GUIDE TYPE
------	---	------------

Definition: INDICATES THE TYPE OF GUIDE PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BMHWDBQ*; BMHWDBN\$DBP*)

<u>REPLY CODE</u>	<u>REPLY (AD58)</u>
BN	EXTERNAL
BP	INTERNAL
BQ	SEMIGUIDED

ALL

BHJT	D	BASE
------	---	------

Definition: AN INDICATION OF WHETHER OR NOT A BASE(S) IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BHJTDB*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL*

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	CHLP	A	SLEEVE QUANTITY
	Definition: THE NUMBER OF SLEEVES PROVIDED.		
	Reply Instructions: Enter the quantity. (e.g., CHLPA2*)		
	NOTE FOR MRCS AFTB AND CHLQ: IF A REPLY IS ENTERED FOR MRC CHLP, REPLY TO MRC AFTB AND, IF APPLICABLE, TO MRC CHLQ.		
	ALL* (See Note Above)		
	AFTB	D	SLEEVE MATERIAL
	Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE SLEEVE IS FABRICATED.		
	Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 1. (e.g., AFTBDBR0000*; AFTBDBR0000\$DPC0000*)		
	ALL* (See Note Preceding MRC AFTB)		
	CHLQ	D	SLEEVE SURFACE TREATMENT
	Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS THE SLEEVE SURFACE.		
	Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 2. (e.g., CHLQDZN0000*; CHLQDCD0000\$DZN0000*)		
	ALL		
	CJMT	D	BODY/ELEMENT MATERIAL
	Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE BODY/ELEMENT IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.		
	Reply Instructions: Enter the applicable Reply Code from Appendix A , Table 1. (e.g., CJMTDFE0000*; CJMTDFE0000\$SDST0000*; CJMTDFE0000\$SDST0000*)		
	ALL*		
	CJMW	D	BODY/ELEMENT SURFACE TREATMENT

FIIG T
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPE OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS THE SURFACE OF THE BODY/ELEMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., CJMWDZNA000*; CJMWDPN0000\$\$DZNA000*; CJMWDPN0000\$DZNA000*)

ALL

AWZY	D	END CONNECTION TYPE
------	---	---------------------

Definition: INDICATES THE TYPE OF END CONNECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWZYDBJ*)

<u>REPLY CODE</u>	<u>REPLY (AB76)</u>
BJ	FLANGED
BG	THREADED
NQ	WELDED

NOTE FOR MRCS CKWD, AHTH, CHLR, AND AJYP: REPLY TO MRCS CKWD AND AHTH, AND, IF APPLICABLE, TO MRC CHLR, IF REPLY CODE BJ IS ENTERED FOR MRC AWZY. REPLY TO MRC AJYP IF REPLY CODE BG IS ENTERED FOR MRC AWZY.

ALL* (See Note Above)

CKWD	D	DRILLED FLANGE END FEATURE
------	---	----------------------------

Definition: AN INDICATION OF WHETHER OR NOT A DRILLED FLANGE END FEATURE IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CKWddb; CKWddb\$DC*)*

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

FIG T
Section Parts

APP	Key	MRC	Mode Code	Requirements
-----	-----	-----	-----------	--------------

NOTE FOR MRCS ABKG, AECS, AHNX AND AHTC: REPLY TO MRCS ABKG, AECS, AND AHNX, IF REPLY CODE B IS ENTERED FOR MRC CKWD. FOR MULTIPLE REPLIES, USE SECONDARY ADDRESS CODING ENTERING IN THE SAME SEQUENCE AS MRC ABKG. REPLY TO MRC AHTC IF REPLY CODE C IS ENTERED FOR MRC CKWD.

ALL* (See Note Above)

ABKG	J	BOLT CIRCLE DIAMETER
------	---	----------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A BOLT CIRCLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value entering in ascending sequence. (e.g., ABKGJAA6.000; ABKGJAB5.975\$\$JAC6.025*)*

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL* (See Note Preceding MRC ABKG)

AECS	A	BOLT HOLE QUANTITY
------	---	--------------------

Definition: THE NUMBER OF BOLT HOLES PROVIDED ON THE ITEM.

Reply Instructions: Enter the quantity. (e.g., AECSA4*;

AECSIAA8\$\$A10)*

ALL* (See Note Preceding MRC ABKG)

AHNX	J	BOLT HOLE DIAMETER
------	---	--------------------

FIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE BOLT HOLE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AHNXJAA0.500; AHNXJAB0.495\$\$JAC0.505*)*

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC ABKG)

AHTC	J	FLANGE OUTSIDE DIAMETER
------	---	-------------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A FLANGE, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AHTCJAA12.750; AHTCJAB12.700\$\$JAC12.800*)*

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL* (See Note Preceding MRC CKWD)

FIG T
Section Parts

APP
Key

MRC

Mode Code

Requirements

AHTH

D

FLANGE MATERIAL

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH THE FLANGE IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., AHTHDS T0000*; AHTHDAS0000\$DST0000*; AHTHDS T0000\$DSTB000*)

ALL* (See Note Preceding MRC CKWD)

CHLR

D

FLANGE SURFACE TREATMENT

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS THE FLANGE SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., CHLRDZN0000*; CHLRDCD0000\$DPS0000*; CHLRDCD0000\$DZN0000*)

ALL* (See Note Preceding MRC CKWD)

AJYP

D

SCREW THREAD SERIES DESIGNATOR

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3. (e.g., AJYPDNP*)

ALL*

CQQR

B

THREAD PITCH IN MILLIMETERS

Definition: A MEASUREMENT OF DISTANCE BETWEEN CORRESPONDING POINTS ON TWO ADJACENT THREADS MEASURED PARALLEL TO THE THREAD AXIS, EXPRESSED IN MILLIMETERS.

Reply Instructions: Enter the numeric value. (e.g., CQQRB1.0*).

ALL*

CTTC

J

THREAD TOLERANCE CLASS

FIIG T
Section Parts

APP	Key	MRC	Mode Code	Requirements
-----	-----	-----	-----------	--------------

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.

Reply Instructions: Enter the applicable Reply Code from the table below followed by the designator. (e.g., CTTCJNTE6H*).

<u>REPLY CODE</u>	<u>REPLY (AN73)</u>
EXT	EXTERNAL
NTE	INTERNAL

ALL*

CFQK	J	WORKING PRESSURE RATING
------	---	-------------------------

Definition: THE WORKING PRESSURE AT WHICH THE ITEM IS RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., CFQKJFBA50.0*; CFQKJFBB45.0\$\$JFBC55.0*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., CFQKKN*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AG67)</u>
EY	KILOGRAMS PER SQUARE CENTIMETER
LJ	MEGAPASCALS
FB	POUNDS PER SQUARE INCH

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL

AAGN	J	NOMINAL PIPE SIZE DESIGNATION
------	---	-------------------------------

Definition: THE INDUSTRIAL DESIGNATION OR TERM USED TO DEFINE THE DIAMETER OF PIPE.

FIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AAGNJA1.000*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL

CHLT J TRAVERSE MAXIMUM LENGTH

Definition: THE MEASUREMENT OF THE MAXIMUM TRAVERSE LENGTH OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CHLTJA6.000*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

ALL

ABHP J OVERALL LENGTH

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value, measured from end to end with the joint in the open position. (e.g., ABHPJAA15.750*; ABHPJAB15.500\$JAC16.000*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

FIIG T
Section Parts

SECTION: U

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED03344*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBR0000*; MATLDBR0000\$\$DST0000*; MATLDBR0000\$DST0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000*; SURFDAN0000\$\$DPN0000*; SURFDAN0000\$DPN0000*)

ALL*

CHLW	D	SHOULDER TYPE
------	---	---------------

Definition: INDICATES THE TYPE OF SHOULDER(S) PROVIDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CHLWDQP*)

<u>REPLY CODE</u>
CN
QP

<u>REPLY (AB47)</u>
DOUBLE FLANGE
SINGLE FLANGE

FIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

ALL

AJER	J	HOSE INSIDE DIAMETER FOR WHICH DESIGNED
------	---	--

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE HOSE FOR WHICH THE ITEM IS DESIGNED, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJERJAA0.250*; AJERJLA15.0*; AJERJAB0.245\$\$JAC0.255*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

ALL

ABHP	J	OVERALL LENGTH
------	---	----------------

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA3.500*; ABHPJLA80.0*; ABHPJAB3.475\$\$JAC3.525*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

REPLY (AC20)

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

FIIG T
Section Parts

SECTION: V

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED32837*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDAL0000*; MATLDAL0000\$\$DST0000*; MATLDAL0000\$DST0000*)

ALL*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000*; SURFDAN0000\$\$DCD0000*; SURFDAN0000\$DCD0000*)

ALL

STYL	L	STYLE DESIGNATOR
------	---	------------------

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ITEM.

Reply Instructions: Enter the group designator and applicable style number from [Appendix B](#), Reference Drawing Group U. (e.g., STYLLU2*)

ALL

ACSV	J	TUBE OUTSIDE DIAMETER FOR WHICH
------	---	---------------------------------

FIG T
Section Parts

APP	MRC	Mode Code	Requirements
Key			

DESIGNED

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE TUBE FOR WHICH DESIGNED, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ACSVJAA2.500*; ACSVJLA75.0*; ACSVJAB2.450\$\$JAC2.510*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

VB*

AJER	J	HOSE INSIDE DIAMETER FOR WHICH DESIGNED
------	---	---

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE HOSE FOR WHICH THE ITEM IS DESIGNED, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJERJAA0.250*; AJERJLA15.0*; AJERJAB0.245\$\$JAC0.250*)

Table 1

REPLY CODE

A
L

REPLY (AA05)

INCHES
MILLIMETERS

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

VB*, VC

ABUJ	A	THREAD SIZE
------	---	-------------

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the thread size.

(e.g., ABUJA1-3/4-12*)

VB*, VC

AJYP	D	SCREW THREAD SERIES DESIGNATOR
------	---	--------------------------------

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3. (e.g., AJYPDUN*)

VB*, VC

AAJD	A	THREAD CLASS
------	---	--------------

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.

Reply Instructions: Enter the thread class. (e.g., AAJDA2B*)

VB*, VC

AAJF	D	THREAD DIRECTION
------	---	------------------

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AAJFDAAL*)

REPLY CODE

REPLY (AA38)

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		AAG	LEFT-HAND
		AAL	RIGHT-HAND

VB*, VC*

CTTC J THREAD TOLERANCE CLASS

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING ESTABLISHED PITCH AND CREST DIAMETER TOLERANCE POSITION AND GRADE.

Reply Instructions: Enter the applicable Reply Code from the table below followed by the designator. (e.g., CTTCJNTE6H*).

<u>REPLY CODE</u>	<u>REPLY (AN73)</u>
EXT	EXTERNAL
NTE	INTERNAL

ALL*

CDPG J WORKING PRESSURE AND SERVICE TYPE

Definition: A MEASUREMENT OF THE WORKING PRESSURE AND THE TYPE OF SERVICE FOR WHICH RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1, 2, and 3 below, followed by the numeric value. (e.g., CDPGJFBAAABA500.0*; CDPGJFBBAABA480.0\$\$JFBCAABA520.0*)

For multiple service types, use AND coding (\$\$) for pressure tolerance, if applicable, entering in Table 3 sequence. For items having pressure but no service type, enter the applicable Reply Codes from Tables 1 and 2 below, followed by Reply Code AAAA from Table 3 and the numeric value. (e.g., CDPGJFBAAAAA100.0)*

Table 1

<u>REPLY CODE</u>	<u>REPLY (AG67)</u>
EY	KILOGRAMS PER SQUARE CENTIMETER
LJ	MEGAPASCALS
FB	POUNDS PER SQUARE INCH

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		C	MAXIMUM

Table 3

REPLY CODE

AABA
AAAA
AABK
AABL
AACZ
AADB
AAAS
AADD

REPLY (AB75)

AIR
ANY ACCEPTABLE
GAS
HELIUM
JET FUEL
NITROGEN
OIL
OXYGEN

ALL*

CDPH J WORKING TEMP AND SERVICE TYPE

Definition: A MEASUREMENT OF THE WORKING TEMPERATURE AND THE TYPE OF SERVICE FOR WHICH RATED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1, 2, and 3 below, followed by the numeric value. (e.g., CDPHJGWAAABA150.0*; CDPHJGWBAABA110.0\$\$JGWCAABA140.0*)

For multiple service types, use AND coding (\$\$) for temperature tolerance, if applicable, entering in Table 3 sequence. For items having a temperature but no service type, enter the applicable Reply Codes from Tables 1 and 2 below, followed by Reply Code AAAA from Table 3 and the numeric value. (e.g., CDPHJGWAAAAA150.0)*

Table 1

REPLY CODE

GT
GW

REPLY (AG67)

DEG CELSIUS
DEG FAHRENHEIT

Table 2

REPLY CODE

A
B
C

REPLY (AC20)

NOMINAL
MINIMUM
MAXIMUM

Table 3

REPLY CODE

AABA

REPLY (AB75)

AIR

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		AAAA	ANY ACCEPTABLE
		AABK	GAS
		AABL	HELIUM
		AACZ	JET FUEL
		AADB	NITROGEN
		AAAS	OIL
		AADD	OXYGEN

FIIG T
Section Parts

SECTION: W

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED32552*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDS T0000*; MATLDS T0000\$DBR0000*)

ALL

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDZN0000*; SURFDGB0000\$DCD0000*)

ALL

STYL	L	STYLE DESIGNATOR
------	---	------------------

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ITEM.

Reply Instructions: Enter the group designator and applicable style number from [Appendix B](#), Reference Drawing Group W. (e.g., STYLLW1*)

FIIG T
Section Parts

SECTION: STANDARD

APP

Key MRC Mode Code Requirements

ALL*

FEAT G SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE*)

ALL*

TEST J TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

(e.g., TESTJA12345-CWX654321*;

TESTJA1234A-654321\$\$JB5556A-663654*;

TESTJAA2345-654321\$JB55566-663654*)

REPLY
CODE

REPLY (AC28)

A

SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.)

B

STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)

FIIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

		C	DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing)
--	--	---	---

ALL*

SPCL	G	SPECIAL TEST FEATURES	
------	---	-----------------------	--

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS*)

ALL*

ZZZK	J	SPECIFICATION/STANDARD DATA	
------	---	-----------------------------	--

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B*;

ZZZKJS81349-MIL-D-180 REV1/CANCELED/*;

ZZZKJP80205-NAS1103*;

ZZZKJS81349-MIL-C-1140C/CE/*;

ZZZKJT81337-30642B\$\$JP80205-NAS1103*)

FIIG T
Section Parts

APP

Key MRC Mode Code Requirements

<u>REPLY CODE</u>	<u>REPLY (AN62)</u>
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
B	NATIONAL STD/SPEC
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

NOTE FOR MRC ZZZT: IF THE SPECIFICATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL* (See Note Above)

ZZZT J NONDEFINITIVE SPEC/STD DATA

Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 4, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1*; ZZZTJTY1\$JSTA*; ZZZTJTY1\$JSTA*)

ALL*

ZZZW G DEPARTURE FROM CITED DOCUMENT

Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL*)

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

ALL*

ZZZX	G	DEPARTURE FROM CITED DESIGNATOR
------	---	---------------------------------

Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL*)

ALL*

ZZZY	G	REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS
------	---	--

Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS*; ZZZYGAS DIFFERENTIATED BY MATERIAL*)

ALL*

CRTL	A	CRITICALITY CODE JUSTIFICATION
------	---	--------------------------------

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL*; CRTLAMATL\$\$ASURF*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.

ALL* (See Note Above)

FIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

PRPY	A	PROPRIETARY CHARACTERISTICS
------	---	-----------------------------

Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.

Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS*; PRPYANPAC*; PRPYAMATL\$ASURF*)

ALL*

ELRN	G	EXTRA LONG REFERENCE NUMBER
------	---	-----------------------------

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365*).

If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

ALL*

ELCD	D	EXTRA LONG CHARACTERISTIC DESCRIPTION
------	---	---------------------------------------

Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.

Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA*)

REPLY
CODE

REPLY (AN58)

FIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
		A	ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD

FIIG T
Section Parts

SECTION: SUPPTECH

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

CCNF	G	APPLICATION/FUNCTION
------	---	----------------------

Definition: THE APPLICATION AND/OR FUNCTION FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the reply in clear text. (e.g., CCNFGUSED AS PIPE CLAMP IN BLOWER SYSTEM*)

ALL

CBME	J	CUBIC MEASURE
------	---	---------------

Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CBMEJCF1.0219*)

REPLY CODE

CF
CM

REPLY (AN76)

CUBIC FEET
CUBIC METERS

ALL

PRMT	D	PRECIOUS MATERIAL
------	---	-------------------

Definition: IDENTIFICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., PRMTDAGA000*; PRMTDAUA000\$\$DAGA000*)

REPLY CODE

AUA000
IRA000
AZA000
PDA000
PTA000
RHA000
RTA000

REPLY (MA01)

GOLD
IRIDIUM
OSMIUM
PALLADIUM
PLATINUM
RHODIUM
RUTHENIUM

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

138

FIG T
Section Parts

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

		AZA000	OSMIUM
		PDA000	PALLADIUM
		PTA000	PLATINUM
		RHA000	RHODIUM
		RTA000	RUTHENIUM
		AGA000	SILVER

ALL

SUPP	G	SUPPLEMENTARY FEATURES	
------	---	------------------------	--

Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT*)

ALL

AGAV	G	END ITEM IDENTIFICATION	
------	---	-------------------------	--

Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.

Reply Instructions: Enter the reply in clear text.

(e.g., AGAVG3930-00-000-0000*;

AGAVGFORKLIFT TRUCK, SMITH CORP, MODEL 12, TYPE A*)

ALL

ZZZV	G	FSC APPLICATION DATA	
------	---	----------------------	--

Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY.

Reply Instructions: Enter the name of the next higher classifiable assembly in clear text. (e.g., ZZZVGFUEL SYSTEM, GASOLINE ENGINE, NONAIRCRAFT*)

ALL

FIIG T
Section Parts

APP Key	MRC	Mode Code	Requirements
	CXCY	G	PART NAME ASSIGNED BY CONTROLLING AGENCY

Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT
AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN
OF THE ITEM.

Reply Instructions: Enter the reply in clear text. (e.g., CXCYGLINE PROCESSOR
CONTROL BOARD*)

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Table 1 - MATERIALS
MATERIALS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0000	ALUMINUM ALLOY
AL0686	ALUMINUM ALLOY, AMS 40
AL0724	ALUMINUM ALLOY, AMS 4037
AL0869	ALUMINUM ALLOY, AMS 4117
AL0003	ALUMINUM ALLOY, AMS 4118
AL0005	ALUMINUM ALLOY, AMS 4120
AL0006	ALUMINUM ALLOY, AMS 4121
AL1194	ALUMINUM ALLOY, AMS 4260
AL0195	Aluminum Alloy, QQ-A-200/2, ALLOY 2014, T6 Aluminum Alloy, QQ-A-200/2, T6 (use Reply Code AL0195)
AL0031	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024
AL0202	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T4
AL0203	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T42
AL0200	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T3510
AL0201	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T3511
AL0205	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T8511 Aluminum Alloy, QQ-A-200/3, T4 (use Reply Code AL0202) Aluminum Alloy, QQ-A-200/3 (use Reply Code AL0031)
AL0208	ALUMINUM ALLOY, QQ-A-200/4, ALLOY 5083, H111
AL0211	ALUMINUM ALLOY, QQ-A-200/5, ALLOY 5086, H111
AL0494	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6061, T6510
AL0230	ALUMINUM ALLOY, QQ-A-200/9, ALLOY 6063, T5
AL1498	ALUMINUM ALLOY, QQ-A-200/11, T6
AL0041	ALUMINUM ALLOY, QQ-A-200/12, ALLOY 7079 Aluminum Alloy, QQ-A-225, T6 (use Reply Code AL0293)
AL0043	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100
AL0260	ALUMINUM ALLOY, QQ-A-225/1, ALLOY 1100, F Aluminum Alloy, QQ-A-225/1 (use Reply Code AL0043)
AL0044	ALUMINUM ALLOY, QQ-A-225/2, ALLOY 3003
AL0268	ALUMINUM ALLOY, QQ-A-225/3, ALLOY 2011
AL0269	ALUMINUM ALLOY, QQ-A-225/3, ALLOY 2011, T3 Aluminum Alloy, QQ-A-225/3, T3 (use Reply Code AL0269)
AL0128	ALUMINUM ALLOY, QQ-A-225/4
AL0273	ALUMINUM ALLOY, QQ-A-225/4, ALLOY 2014, T6 Aluminum Alloy, QQ-A-225/4, T6 (use Reply Code AL0273)
AL0046	ALUMINUM ALLOY, QQ-A-225/5, ALLOY 2017
AL0276	ALUMINUM ALLOY, QQ-A-225/5, ALLOY 2017, T4 Aluminum Alloy, QQ-A-225/5, T4 (use Reply Code AL0276) Aluminum Alloy, QQ-A-225/5 (use Reply Code AL0046)
AL0047	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024
AL1724	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T3
AL0280	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T4

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AL0281	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T6
AL0279	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T351
AL0282	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T851
	Aluminum Alloy, QQ-A-225/6, T3 (use Reply Code AL1724)
	Aluminum Alloy, QQ-A-225/6, T4 (use Reply Code AL0280)
	Aluminum Alloy, QQ-A-225/6, T6 (use Reply Code AL0281)
	Aluminum Alloy, QQ-A-225/6, T351 (use Reply Code AL0279)
	Aluminum Alloy, QQ-A-225/6, T851 (use Reply Code AL0282)
	Aluminum Alloy, QQ-A-225/6 (use Reply Code AL0047)
AL0287	ALUMINUM ALLOY, QQ-A-225/7, ALLOY 5052, H38
AL0049	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061
AL0293	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T6
AL0294	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T651
AL1654	ALUMINUM ALLOY, QQ-A-225/8, T4
	Aluminum Alloy, QQ-A-225/8, T6 (use Reply Code AL0293)
AL0050	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075
AL0298	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075, T73
AL0944	ALUMINUM ALLOY, QQ-A-225/9, T6
	Aluminum Alloy, QQ-A-225/9, T73 (use Reply Code AL0298)
AL0962	ALUMINUM ALLOY, QQ-A-225/9, T651
	Aluminum Alloy, QQ-A-225/9 (use Reply Code AL0050)
AL0888	ALUMINUM ALLOY, QQ-A-250/1, O
AL0136	ALUMINUM ALLOY, QQ-A-250/4
AL0334	ALUMINUM ALLOY, QQ-A-250/4, ALLOY 2024, T4
AL0590	ALUMINUM ALLOY, QQ-A-250/5
	Aluminum Alloy, QQ-A-250/5, Alloy Alclad 2024, T3 (use Reply Code AL1173)
AL1173	ALUMINUM ALLOY, QQ-A-250/5, ALLOY 2024, T3
AL1720	ALUMINUM ALLOY, QQ-A-250/5, ALLOY 2024, T4
AL0947	ALUMINUM ALLOY, QQ-A-250/5, O
AL0054	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083
AL0356	ALUMINUM ALLOY, QQ-A-250/6, ALLOY 5083, H321
AL0055	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086
AL0361	ALUMINUM ALLOY, QQ-A-250/7, ALLOY 5086, H32
AL0059	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061
AL0386	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T4
AL0387	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T6
	Aluminum Alloy, QQ-A-250/11, T4 (use Reply Code AL0386)
	Aluminum Alloy, QQ-A-250/11, T6 (use Reply Code AL0387)
	Aluminum Alloy, QQ-A-250/11 (use Reply Code AL0059)
	Aluminum Alloy, QQ-A-250/11, 6061, T4 (use Reply Code AL0386)
AL0144	ALUMINUM ALLOY, QQ-A-250/14
	Aluminum Alloy, QQ-A-261, T6-Canceled (use Reply Code AL0195)
	Aluminum Alloy, QQ-A-266, T6-Canceled (use Reply Code AL0273)
	Aluminum Alloy, QQ-A-267-Canceled (use Reply Code AL0031)
	Aluminum Alloy, QQ-A-267, Temper T4-Canceled (use Reply Code AL0202)
	Aluminum Alloy, QQ-A-267, T4-Canceled (use Reply Code AL0202)
	Aluminum Alloy, QQ-A-268, Alloy 2024, T4-Canceled (use Reply Code AL0280)

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	Aluminum Alloy, QQ-A-268, Alloy 2024, T351-Canceled (use Reply Code AL0279)
	Aluminum Alloy, QQ-A-268-Canceled (use Reply Code AL0047)
	Aluminum Alloy, QQ-A-268, Cond T4-Canceled (use Reply Code AL0280)
	Aluminum Alloy, QQ-A-268, Temper T6-Canceled (use Reply Code AL0281)
	Aluminum Alloy, QQ-A-268, Temper T851-Canceled (use Reply Code AL0282)
	Aluminum Alloy, QQ-A-268, T3-Canceled (use Reply Code AL0279)
	Aluminum Alloy, QQ-A-268, T4-Canceled (use Reply Code AL0280)
	Aluminum Alloy, QQ-A-315, Temper H38 No. 5052, (use Reply Code AL0287)
	Aluminum Alloy, QQ-A-325-Canceled (use Reply Code AL0049)
	Aluminum Alloy, QQ-A-325, Temper 6-Canceled (use Reply Code AL0293)
	Aluminum Alloy, QQ-A-325, T6-Canceled (use Reply Code AL0293)
	Aluminum Alloy, QQ-A-327, Alloy 6061, T6-Canceled (use Reply Code AL0387)
	Aluminum Alloy, QQ-A-327, T4-Canceled (use Reply Code AL0386)
	Aluminum Alloy, QQ-A-327, T6-Canceled (use Reply Code AL0387)
	Aluminum Alloy, QQ-A-351-Canceled (use Reply Code AL0046)
	Aluminum Alloy, QQ-A-351, T4-Canceled (use Reply Code AL0276)
	Aluminum Alloy, QQ-A-351C, Comp 17S, Cond T4-Canceled (use Reply Code AL0276)
	Aluminum Alloy, QQ-A-355, T4-Canceled (use Reply Code AL0334)
	Aluminum Alloy, QQ-A-355B, Comp 24S, T4-Canceled (use Reply Code AL0334)
	Aluminum Alloy, QQ-A-356, T6 (use Reply Code AL0044)
	Aluminum Alloy, QQ-A-362, T3-Canceled (use Reply Code AL0345)
	Aluminum Alloy, QQ-A-362, T4-Canceled (use Reply Code AL1720)
	Aluminum Alloy, QQ-A-365, Comp A (use Reply Code AL0269)
	Aluminum Alloy, QQ-A-365 (use Reply Code AL0268)
AL0064	ALUMINUM ALLOY, QQ-A-367, ALLOY 2017
AL1571	ALUMINUM ALLOY, QQ-A-367, ALLOY 7075, T73
AL0420	ALUMINUM ALLOY, QQ-A-367, COMP 2014, T6
	Aluminum Alloy, QQ-A-367, Temper T73 (use Reply Code AL1571)
AL1380	ALUMINUM ALLOY, QQ-A-596, ALLOY 356, T6
AL1944	ALUMINUM ALLOY, SAE 24S, T4-CANCELED
AL1481	ALUMINUM ALLOY, WW-T-700/3, ALLOY 2024
AL0633	ALUMINUM ALLOY, WW-T-700/3, ALLOY 2024, T3
	Aluminum Alloy, WW-T-700/3, T3, Type 5 (use Reply Code AL0633)
AL1826	ALUMINUM ALLOY, WW-T-700/6, ALLOY 6061
AL1722	ALUMINUM ALLOY, WW-T-700/6, ALLOY 6061, T6
	Aluminum Alloy, WW-T-785-Canceled (use Reply Code AL1481)
	Aluminum Alloy, WW-T-785, T3-Canceled (use Reply Code AL0633)
	Aluminum Alloy, WW-T-789-Canceled (use Reply Code AL1826)
	Aluminum Alloy, 2017 (use Reply Code AL0046)
	Aluminum Alloy, 2024, T851 (use Reply Code AL0282)
	Aluminum Alloy, 6061, T6 (use Reply Code AL0293)
ALA000	ALUMINUM BRONZE
AL1577	ALUMINUM BRONZE, MIL-A-15939, COMP 1-CANCELED
AL0969	ALUMINUM BRONZE, MIL-B-6946-CANCELED
	Aluminum, Forged (use Reply Code AL0000)
A	ANY ACCEPTABLE
AS0000	ASBESTOS

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ASG000	ASBESTOS FABRIC
BR0000	BRASS
BR0005	BRASS, AMS 4713
BR0334	BRASS, ASTM B16
BR0493	BRASS, ASTM B16-52
BR0406	BRASS, ASTM B16-60
BR0368	BRASS, ASTM B21, ALLOY A
BR0486	BRASS, ASTM B124, ALLOY NO. 2
BR0359	BRASS, ASTM B145, ALLOY 4B
BR0621	BRASS, MIL-B-944, COMP A
BR0044	BRASS, MIL-B-994, COMP A-CANCELED
BR0530	BRASS, MIL-B-994, COMP A, 1/2 HARD-CANCELED
BR0445	BRASS, MIL-B-994, COMP B-CANCELED
BR0353	BRASS, MIL-B-994, COMP B, 1/2 HARD-CANCELED
BR0045	BRASS, MIL-B-994, COMP C-CANCELED
BR0721	BRASS, MIL-B-17668, COMP 1
BR0335	BRASS, MIL-C-895-CANCELED
BR0386	BRASS, MIL-C-895, 1/2 HARD-CANCELED
BR0419	BRASS, MIL-T-20168
BR0780	BRASS, PWA 167, PRATT WHITNEY AIRCRAFT CORP
	Brass, QQ-B-611-Canceled (use Reply Code BR0048)
	Brass, QQ-B-611, Comp A (use Reply Code BR0189)
	Brass, QQ-B-611, Comp B-Canceled (use Reply Code BR0188)
	Brass, QQ-B-611, Comp B, 1/2 H-Canceled (use Reply Code BR0155)
	Brass, QQ-B-613, Comp 2, Annealed (use Reply Code BR0113)
	Brass, QQ-B-613, Comp 2 (use Reply Code BR0184)
BR0015	BRASS, QQ-B-621, CLASS C-CANCELED
BR0048	BRASS, QQ-B-626
BR0184	BRASS, QQ-B-626, ALLOY 260
BR0113	BRASS, QQ-B-626, ALLOY 260, SOFT
BR0185	BRASS, QQ-B-626, ALLOY 268
BR0188	BRASS, QQ-B-626, ALLOY 360
BR0124	BRASS, QQ-B-626, ALLOY 360, HARD
BR0155	BRASS, QQ-B-626, ALLOY 360, 1/2H
BR0189	BRASS, QQ-B-626, ALLOY 377
BR0126	BRASS, QQ-B-626, ALLOY 377, 1/2H
	Brass, QQ-B-626, Comp B (use Reply Code BR0188)
	Brass, QQ-B-626, Comp 1 (use Reply Code BR0185)
	Brass, QQ-B-626, Comp 2 (use Reply Code BR0184)
BR0038	BRASS, QQ-B-626, Comp 11
BR0040	BRASS, QQ-B-626, Comp 11, 1/2H
	Brass, QQ-B-626, Comp 21 (use Reply Code BR0189)
	Brass, QQ-B-626, Comp 21, 1/2H (use Reply Code BR0126)
	Brass, QQ-B-626, Comp 22, H (use Reply Code BR0124)
	Brass, QQ-B-626, Comp 22 (use Reply Code BR0188)
	Brass, QQ-B-626, Comp 22, 1/2H-Canceled (use Reply Code BR0155)
	Brass, QQ-B-626, Comp 22, 1/4H (use Reply Code BR0155)

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
	Brass, QQ-B-626, Comp 360, 1/2H (use Reply Code BR0155)
	Brass, QQ-B-626, 1/2 Hard (use Reply Code BR0155)
	Brass, QQ-B-636, Class A-Canceled (use Reply Code BR0458)
BR0458	BRASS, QQ-B-636, COMP 1-CANCELED
BR0687	BRASS, QQ-B-636, COMP 2-CANCELED
BR0071	BRASS, QQ-B-637, ALLOY 464
BR0133	BRASS, QQ-B-637, ALLOY 464, 1/2H
BR0072	BRASS, QQ-B-637, ALLOY 482
	Brass, QQ-B-637, Comp 1 (use Reply Code BR0071)
	Brass, QQ-B-637, Comp 1, 1/2H (use Reply Code BR0133)
	Brass, QQ-B-637, Comp 2 (use Reply Code BR0072)
BR0145	BRASS, QQ-B-639, ALLOY 464, 1/2H
	Brass, QQ-B-639, Comp 1, 1/2H (use Reply Code BR0145)
	Brass, Red (use Reply Code BR0000)
BR0206	BRASS, SAE CA345
BR0033	BRASS, SAE CA360
BR0612	BRASS, SAE CA360, 1/2H
	Brass, SAE J461, Comp CA360, COND 1/2 HARD (use Reply Code BR0033)
	Brass, SAE J461, Comp CA360 (use Reply Code BR0033)
BR0153	BRASS, SAE 40
BR0349	BRASS, SAE 70
BR0340	BRASS, SAE 72
BR0616	BRASS, SAE 72, 1/2H
BR0779	BRASS, SAE 78
BR0500	BRASS, SAE 88
BRAN00	BRASS SILICON
	Brass, 1/2 Hard (use Reply Code BR0155)
BN0000	BRONZE
	Bronze Alloy (use Reply Code BN0000)
BNA000	BRONZE ALUMINUM
BN0014	BRONZE, ASTM B61
BN0015	BRONZE, ASTM B62
BN0527	BRONZE, ASTM B143-52, ALLOY 2A
BNY000	BRONZE, LEADED
BM0121	BRONZE-MANGANESE, QQ-B-726, CLASS D-CANCELED
BN0160	BRONZE, MIL-B-892
BN0181	BRONZE, MIL-B-6946-CANCELED
BN0137	BRONZE, MIL-B-15939, COMP 1-CANCELED
BN0086	BRONZE, MIL-B-16444
BN0238	BRONZE, MIL-B-16444, GRADE A
BN0239	BRONZE, MIL-B-16541
BN0141	BRONZE, MIL-B-16541, GRADE A
BN0528	BRONZE, N, 45U5, COMP A
BN0529	BRONZE, N, 45U5, COMP B
BN0526	BRONZE, QQ-B-666, GRADE B-CANCELED
BN0379	BRONZE, QQ-B-691, COMP 2-CANCELED
BN0260	BRONZE, QQ-B-691, COMP 5-CANCELED

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
BN0279	BRONZE, QQ-B-728, CLASS B, TEMPER HARD
BN0139	BRONZE, QQ-B-746, COMP A-CANCELED
BN0507	BRONZE, QQ-B-746, COMP A, HARD-CANCELED
BN0224	BRONZE, QQ-L-225, COMP 1-CANCELED
BN0133	BRONZE, SAE 64
BN0134	BRONZE, SAE 65
BN0490	BRONZE, SAE 660
CAC000	CARBON ALLOY
STAAAD	CARBON MOLYBDENUM STEEL
CRD000	CHROMIUM ALLOY
CMB000	COBALT-CHROMIUM-TUNGSTEN ALLOY
CU0000	COPPER
CK0000	COPPER ALLOY
CK0129	COPPER ALLOY, AMS 4610
CK0187	COPPER ALLOY, MIL-C-15726, COMP 70-30
CK0370	COPPER ALLOY, MIL-T-46072, ALLOY 330, HARD DRAWN Copper Alloy, QQ-B-621-Canceled
CK0131	COPPER ALLOY, QQ-B-626, COMP 22
CK0087	COPPER ALLOY, QQ-C-390
CK0019	COPPER ALLOY, QQ-C-390, ALLOY B1
CK0023	COPPER ALLOY, QQ-C-390, ALLOY B6
CK0135	COPPER ALLOY, QQ-C-390, ALLOY C3
CK0101	COPPER ALLOY, QQ-C-390, ALLOY D4, TYPE 1
CK0028	COPPER ALLOY, QQ-C-390, ALLOY D5
CK0124	COPPER ALLOY, QQ-C-465, ALLOY 642
CK0007	COPPER ALLOY, QQ-C-525, COMP 1
CK0439	COPPER ALLOY, QQ-C-530
CK0441	COPPER ALLOY, QQ-C-576, SOFT ANNEALED
CK0457	COPPER ALLOY, QQ-C-591, CLASS A, HARD
CK0589	COPPER ALLOY, QQ-C-591, CLASS D, HARD Copper Alloy, QQ-L-225-Canceled
CK0874	COPPER ALLOY, SAE CA111
CK0871	COPPER ALLOY, SAE CA113
CK0872	COPPER ALLOY, SAE CA114
CK0873	COPPER ALLOY, SAE CA116
CK0049	COPPER ALLOY, SAE CA147
CK0921	COPPER ALLOY, SAE CA268
CK0363	COPPER ALLOY, SAE CA360
CK0365	COPPER ALLOY, SAE CA377
CK0177	COPPER ALLOY, SAE 40
CK0132	COPPER ALLOY, SAE 72
CK0085	COPPER ALLOY, SAE 88 Copper Base Alloy (use Reply Code CK0000)
CK0696	COPPER-BERYLLIUM, ASTM B194
CK0649	COPPER-BERYLLIUM, QQ-C-530, TEMPER AT Copper, MIL-C-15726, Comp 70-30 (use Reply Code CK0187)
KN0000	COPPER NICKEL ALLOY

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
CU0012	COPPER, QQ-C-502
CU0014	COPPER, QQ-C-576
	Copper-Silicon Alloy (use Reply Code CK0000)
CCH000	COTTON DUCK
GS0000	GLASS
GSR000	GLASS, BOROSILICATE
GSAAS0	GLASS FILLED NYLON
GPB000	GRAPHITE, IMPREGNATED
	Gunmetal, MIL-M-16576, Grade A-Canceled (use Reply Code CK0028)
	Gunmetal (use Reply Code CK0000)
FE0000	IRON
FE0282	IRON, ASTM A48
FEH000	IRON BASE POWDER
FEA000	IRON, CAST
FE0055	IRON, CAST, ASTM A126
FEAF00	IRON, CAST, MALLEABLE
FE0001	IRON, CAST, QQ-I-652, CLASS 20
FE0002	IRON, CAST, QQ-I-652, CLASS 25
FE0003	IRON, CAST, QQ-I-652, CLASS 30
FEC000	IRON, MALLEABLE
FE0011	IRON, MALLEABLE, ASTM A197
FE0040	IRON, MALLEABLE, QQ-I-666, GRADE 1
FE0041	IRON, MALLEABLE, QQ-I-666, GRADE 1G
FE0042	IRON, MALLEABLE, QQ-I-666, GRADE 2
FE0080	IRON, QQ-I-652-CANCELLED
	Iron, QQ-I-652, Class 30 (use Reply Code FE0003)
FEB000	IRON, WROUGHT
FE0259	IRON, 1E23, CATERPILLAR TRACTOR CO
MGA000	MAGNESIUM ALLOY
MN0006	MANGANESE PHOSPHATE BASE, MIL-P-16232, TYPE M, CLASS 1
NF0640	NICKEL ALLOY, AMS 5553
	Nickel Brass (use Reply Code NC0000)
NC0000	NICKEL COPPER ALLOY
NC0060	NICKEL COPPER ALLOY, AMS 4674
NC0027	NICKEL COPPER ALLOY, MIL-N-894, CLASS A-CANCELED
NC0031	NICKEL COPPER ALLOY, MIL-N-894, CLASS B-CANCELED
NC0019	NICKEL COPPER ALLOY, MIL-N-20164
NC0017	NICKEL COPPER ALLOY, QQ-N-281
NC0003	NICKEL-COPPER ALLOY, QQ-N-281, CLASS A
	Nickel Copper Alloy, QQ-N-286, Class A (use Reply Code NC0033)
NC0008	NICKEL COPPER ALLOY, QQ-N-288, COMP A
NCA000	NICKEL COPPER ALUMINUM ALLOY
NC0055	NICKEL COPPER ALUMINUM ALLOY, QQ-N-286
NC0033	NICKEL COPPER ALUMINUM ALLOY, QQ-N-286, CLASS A
NF0066	NICKEL, MIL-C-26074, CLASS 1
NFT000	NICKEL STEEL
PZ0000	PHOSPHOR BRONZE

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
PC0000	PLASTIC
PC2782	PLASTIC, ASTM D2464
PC0975	PLASTIC, L-P-410
PC2029	PLASTIC, MIL-P-17091, TYPE 2-CANCELED
PCAAAC	PLASTIC, NYLON RESIN
PC0057	PLASTIC, POLYAMIDE, MIL-M-20693, COMP A, TYPE 1
PCAB00	PLASTIC, POLYESTER
PCCR00	PLASTIC, POLYETHYLENE
PCAH00	PLASTIC, POLYTETRAFLUOROETHYLENE
PL0000	POLYAMIDE NYLON
RL0000	RAYON
RC0000	RUBBER
RCL000	RUBBER, BUNA-N
RCH000	RUBBER, CHLOROPRENE
RCAAAT	RUBBER, FABRIC REINFORCED
RCAZ00	RUBBER, HARD
RC0261	RUBBER, MIL-R-880-CANCELED
RC2440	RUBBER, MIL-R-880, MEDIUM SOFT-CANCELED
RC0001	RUBBER, MIL-R-900
RCB000	RUBBER, NATURAL
RC3129	RUBBER, NATURAL, MIL-STD-417, TYPE R, CLASS RN, GRADE RN725ABC1F1F2
RCBBD0	RUBBER, NITRILE
RCC000	RUBBER, SYNTHETIC
RC3727	RUBBER, SYNTHETIC, MIL-R-880-CANCELED Rubber, Synthetic, MIL-R-900 (use Reply Code RC0001)
RC0225	RUBBER, SYNTHETIC, MIL-R-6855, CLASS 2
RC0226	RUBBER, SYNTHETIC, MIL-R-6855, Class 2, Grade 40
RC0227	RUBBER, SYNTHETIC MIL-R-6855, Class 2, Grade 60
RC1424	RUBBER, SYNTHETIC, MIL-R-15624, CLASS 1
RC0916	RUBBER, SYNTHETIC, MIL-R-15624, CLASS 3 Rubber, Synthetic, MIL-S-6855, Class 2, Grade 40 (use Reply Code RC0226) Rubber, Synthetic, MIL-S-6855, Class 2, Grade 60 (use Reply Code RC0227)
CCP000	RUBBERIZED COTTON DUCK
SL0000	SILICONE RUBBER
AG0001	SILVER, AMS 2410
ST0000	STEEL Steel, AISI B1112 (use Reply Code ST6135) Steel, AISI B1113 (use Reply Code ST6136) Steel, AISI C12L14 (use Reply Code ST6153) Steel, AISI C1010 (use Reply Code ST3548) Steel, AISI C1012 (use Reply Code ST6061) Steel, AISI C1015 (use Reply Code ST6064) Steel, AISI C1016 (use Reply Code ST6068) Steel, AISI C1017 (use Reply Code ST6069) Steel, AISI C1018 (use Reply Code ST6071) Steel, AISI C1019 (use Reply Code ST6072)

REPLY
CODE

REPLY (AD09)

Steel, AISI C1020 (use Reply Code ST6073)
Steel, AISI C1021 (use Reply Code ST6077)
Steel, AISI C1022 (use Reply Code ST6078)
Steel, AISI C1023 (use Reply Code ST6079)
Steel, AISI C1024 (use Reply Code ST6081)
Steel, AISI C1025 (use Reply Code ST6082)
Steel, AISI C1070 (use Reply Code ST6119)
Steel, AISI C1112 (use Reply Code ST6135)
Steel, AISI C1113 (use Reply Code ST6136)
Steel, AISI C1115 (use Reply Code ST6948)
Steel, AISI C1117 (use Reply Code ST6138)
Steel, AISI C1118 (use Reply Code ST6139)
Steel, AISI C1120 (use Reply Code ST6949)
Steel, AISI C1137 (use Reply Code ST6142)
Steel, AISI C1141 (use Reply Code ST6145)
Steel, AISI 201 (use Reply Code ST6034)
Steel, AISI 301 (use Reply Code ST3281)
Steel, AISI 302 (use Reply Code ST1817)
Steel, AISI 303 (use Reply Code ST1818)
Steel, AISI 304 (use Reply Code ST2526)
Steel, AISI 316 (use Reply Code ST3286)
Steel, AISI 321 (use Reply Code ST1819)
Steel, AISI 347 (use Reply Code ST1820)
Steel, AISI 385 (use Reply Code ST6043)
Steel, AISI 410 (use Reply Code ST3291)
Steel, AISI 416 (use Reply Code ST3293)
Steel, AISI 430 (use Reply Code ST1733)
Steel, AISI 430F (use Reply Code ST6044)
Steel, AISI 1010 (use Reply Code ST3548)
Steel, AISI 1012 (use Reply Code ST6061)
Steel, AISI 1013 (use Reply Code ST6063)
Steel, AISI 1015 (use Reply Code ST6064)
Steel, AISI 1016 (use Reply Code ST6068)
Steel, AISI 1017 (use Reply Code ST6069)
Steel, AISI 1020 (use Reply Code ST6073)
Steel, AISI 1064 (use Reply Code ST6115)
Steel, AISI 1065 (use Reply Code ST6116)
Steel, AISI 1080 (use Reply Code ST6125)
Steel, AISI 1110 (use Reply Code ST6133)
Steel, AISI 1112 (use Reply Code ST6135)
Steel, AISI 1113 (use Reply Code ST6136)
Steel, AISI 1115 (use Reply Code ST6948)
Steel, AISI 1116 (use Reply Code ST6137)
Steel, AISI 1117 (use Reply Code ST6138)
Steel, AISI 1118 (use Reply Code ST6139)
Steel, AISI 1137 (use Reply Code ST6142)
Steel, AISI 1141 (use Reply Code ST6145)

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REPLY (AD09)

	Steel, AISI 1213 (use Reply Code ST6136)
	Steel, AISI 3140 (use Reply Code ST6163)
	Steel, AISI 4037 (use Reply Code ST6174)
	Steel, AISI 4037H (use Reply Code ST6175)
	Steel, AISI 4130 (use Reply Code ST6184)
	Steel, AISI 4135H (use Reply Code ST6187)
	Steel, AISI 4137 (use Reply Code ST6188)
	Steel, AISI 4140 (use Reply Code ST6190)
	Steel, AISI 8630 (use Reply Code ST6279)
	Steel, AISI 8735 (use Reply Code ST6296)
	Steel, AISI 8740 (use Reply Code ST6297)
ST2371	STEEL, AMS 5010
ST2444	STEEL, AMS 5022
ST1802	STEEL, AMS 5024
ST2560	STEEL, AMS 5070
ST2859	STEEL, AMS 5085
ST2547	STEEL, AMS 5510
ST1806	STEEL, AMS 5516
ST1809	STEEL, AMS 5525
ST1810	STEEL, AMS 5527
ST1796	STEEL, AMS 5570
ST1728	STEEL, AMS 5610
ST2396	STEEL, AMS 5612
ST2438	STEEL, AMS 5613
ST3110	STEEL, AMS 5619
ST3153	STEEL, AMS 5620
ST1812	STEEL, AMS 5628
ST1798	STEEL, AMS 5639
ST2698	STEEL, AMS 5639, TYPE 304
ST2016	STEEL, AMS 5640
ST1813	STEEL, AMS 5642
ST1917	STEEL, AMS 5643
	Steel, AMS 5643, Cond A (use Reply Code ST1917)
	Steel, AMS 5643, 17-4PH (use Reply Code ST1917)
ST2441	STEEL, AMS 5644
ST1797	STEEL, AMS 5645
ST2754	STEEL, AMS 5646
ST3090	STEEL, AMS 5648
ST3855	STEEL, AMS 5649
STD592	STEEL, AMS 5658
ST7532	STEEL, AMS 5659
ST8069	STEEL, AMS 5663
ST3520	STEEL, AMS 5673
ST2400	STEEL, AMS 5731
ST1606	STEEL, AMS 5735
	Steel, AMS 5735, Type A-286 (use Reply Code ST1606)
ST1608	STEEL, AMS 5737

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
STA272	STEEL, AMS 6267
ST3545	STEEL, AMS 6312
ST1800	STEEL, AMS 6322
ST2518	STEEL, AMS 6323
ST7491	STEEL, AMS 6371, COMP 4130
ST3095	STEEL, AMS 6381
ST2402	STEEL, AMS 6382
ST2138	STEEL, ASTM A105, GRADE 2
ST8181	STEEL, ASTM A109-49
ST8182	STEEL, ASTM A109-62
ST2140	STEEL, ASTM A181, GRADE 2
ST6833	STEEL, ASTM A182, GRADE F22
ST2240	STEEL, ASTM A182, GRADE F304
ST2250	STEEL, ASTM A182, GRADE F347
ST2757	STEEL, ASTM A216
ST2044	STEEL, ASTM A216, GRADE WCB
ST2049	STEEL, ASTM A217, GRADE WC9
ST2755	STEEL, ASTM A234
STF034	STEEL, A276, TYPE 347
STD782	STEEL, C-05-1190, LOCKHEED AIRCRAFT CORP
	Steel, Carbon, FED STD 66, AISI MT1020 (use Reply Code ST6073)
	Steel, Carbon, FED STD 66, AISI or SAE 1016 (use Reply Code ST6068)
	Steel, Carbon, FED STD 66, AISI or SAE 1022 (use Reply Code ST6078)
	Steel, Carbon, FED STD 66, AISI or SAE 1023 (use Reply Code ST6079)
	Steel, Carbon, FED STD 66, AISI or SAE 1026 (use Reply Code ST6084)
	Steel, Carbon, FED STD 66, AISI or SAE 1029 (use Reply Code ST2460)
	Steel, Carbon, FED STD 66, AISI or SAE 1070 (use Reply Code ST6119)
	Steel, Carbon, FED STD 66, AISI or SAE 1078 (use Reply Code ST6124)
	Steel, Carbon, FED STD 66, AISI or SAE 1080 (use Reply Code ST6125)
	Steel, Carbon, FED STD 66, AISI or SAE 1084 (use Reply Code ST6126)
	Steel, Carbon, FED STD 66, AISI 1069 (use Reply Code ST6118)
	Steel, Carbon, FED STD 66, AISI 1071 (use Reply Code ST6120)
	Steel, Carbon, FED STD 66, AISI 1072 (use Reply Code ST6121)
	Steel, Carbon, FED STD 66, AISI 1074 (use Reply Code ST6122)
	Steel, Carbon, FED STD 66, AISI 1075 (use Reply Code ST6123)
	Steel, Carbon, FED STD 66, AISI 1085 (use Reply Code ST6127)
	Steel, Carbon (use Reply Code ST0000)
	Steel, Cast (use Reply Code ST0000)
STE000	STEEL, COPPER CLAD
STB000	STEEL, CORROSION RESISTING
	Steel, Corrosion Resisting, AISI 301 (use Reply Code ST3281)
	Steel, Corrosion Resisting, AISI 416 (use Reply Code ST3293)
	Steel, Corrosion Resisting, AISI 431 (use Reply Code ST3296)
	Steel, Corrosion Resisting, AMS 5643 (use Reply Code ST1917)
	Steel, Corrosion Resisting, AMS 5735 (use Reply Code ST1606)
	Steel, Corrosion Resisting, ASTM A182, GRADE F304 (use Reply Code ST2240)
	Steel, Corrosion Resisting, FED STD 66, AISI 302, 303, 304, or 30302, 30303, 30304

REPLY
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REPLY (AD09)

(use Reply Codes ST1817 or ST1818 or ST2526)
Steel, Corrosion Resisting, FED STD 66, AISI 304 or SAE 30304 (use Reply Code ST2526)
Steel, Corrosion Resisting, FED STD 66, AISI 316 or SAE 30316 (use Reply Code ST3286)
Steel, Corrosion Resisting, FED STD 66, AISI 321 or SAE 30321 (use Reply Code ST1819)
Steel, Corrosion Resisting, FED STD 66, AISI 347 or SAE 30347 (use Reply Code ST1820)
Steel, Corrosion Resisting, MIL-S-5059, Comp 301 (use Reply Code ST7556)
Steel, Corrosion Resisting, QQ-S-763, Class 302 (use Reply Code ST1646)
Steel, Corrosion Resisting, QQ-S-763, Class 304 (use Reply Code ST1649)
Steel, Corrosion Resisting, QQ-S-763, Class 316 (use Reply Code ST1654)
Steel, Corrosion Resisting, QQ-S-763, Class 416 (use Reply Code ST1773)
Steel, FED STD 66, AISI C12L14 (use Reply Code ST6153)
Steel, FED STD 66, AISI C1017 (use Reply Code ST6069)
Steel, FED STD 66, AISI C1018 (use Reply Code ST6071)
Steel, FED STD 66, AISI C1019 (use Reply Code ST6072)
Steel, FED STD 66, AISI C1020 (use Reply Code ST6073)
Steel, FED STD 66, AISI C1021 (use Reply Code ST6077)
Steel, FED STD 66, AISI C1022 or SAE 1022 (use Reply Code ST6078)
Steel, FED STD 66, AISI C1024 (use Reply Code ST6081)
Steel, FED STD 66, AISI C1025 or SAE 1025 (use Reply Code ST6082)
Steel, FED STD 66, AISI C1026 or SAE 1026 (use Reply Code ST6084)
Steel, FED STD 66, AISI C1030 or SAE 1030 (use Reply Code ST6086)
Steel, FED STD 66, AISI C1035 or SAE 1035 (use Reply Code ST6091)
Steel, FED STD 66, AISI C1038 or SAE 1038 (use Reply Code ST6094)
Steel, FED STD 66, AISI C1038 (use Reply Code ST6094)
Steel, FED STD 66, AISI C1040 or SAE 1040 (use Reply Code ST6096)
Steel, FED STD 66, AISI C1045 or SAE 1045 (use Reply Code ST6102)
Steel, FED STD 66, AISI C1060 thru C1080 or SAE 1060 thru 1080 (use Reply Code ST6119)
Steel, FED STD 66, AISI C1113 (use Reply Code ST6136)
Steel, FED STD 66, AISI C1117 (use Reply Code ST6138)
Steel, FED STD 66, AISI C1118 or SAE 1118 (use Reply Code ST6139)
Steel, FED STD 66, AISI C1137 or SAE 1137 (use Reply Code ST6142)
Steel, FED STD 66, AISI C1141 (use Reply Code ST6145)
Steel, FED STD 66, AISI/SAE 1010 (use Reply Code ST3548)
Steel, FED STD 66, AISI/SAE 1050 (use Reply Code ST6106)
Steel, FED STD 66, AISI/SAE 8740 (use Reply Code ST6297)
Steel, FED STD 66, AISI 302 (use Reply Code ST1817)
Steel, FED STD 66, AISI 304/SAE 30304 (use Reply Code ST2526)
Steel, FED STD 66, AISI 316/SAE 30316 (use Reply Code ST3286)
Steel, FED STD 66, AISI 347/SAE 30347 (use Reply Code ST1820)
Steel, FED STD 66, AISI 416/SAE 51416 (use Reply Code ST3293)
Steel, FED STD 66, AISI 431/SAE 51431 (use Reply Code ST3296)
Steel, FED STD 66, AISI 1010 thru 1022; B1112 or B1113 or C1137 or SAE 1010 thru

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	1020 (use Reply Codes ST6073, or ST6136, or ST6142)
	Steel, FED STD 66, AISI 4037 (use Reply Code ST6174)
	Steel, FED STD 66, AISI 4130 (use Reply Code ST6184)
	Steel, FED STD 66, AISI 4140 (use Reply Code ST6190)
	Steel, FED STD 66, AISI 8630 (use Reply Code ST6279)
	Steel, FED STD 66, AISI 8735 (use Reply Code ST6296)
	Steel, FED STD 66, AISI 8740 (use Reply Code ST6297)
	Steel, FED STD 66, COMP C1117 (use Reply Code ST6138)
ST6153	STEEL, FED STD 66, COMP 12L14
ST6034	STEEL, FED STD 66, COMP 201
ST3281	STEEL, FED STD 66, COMP 301
ST1817	STEEL, FED STD 66, COMP 302
ST1818	STEEL, FED STD 66, COMP 303
ST2526	STEEL, FED STD 66, COMP 304
ST3283	STEEL, FED STD 66, COMP 304L
ST3286	STEEL, FED STD 66, COMP 316
ST1819	STEEL, FED STD 66, COMP 321
ST1820	STEEL, FED STD 66, COMP 347
ST6043	STEEL, FED STD 66, COMP 385
ST3291	STEEL, FED STD 66, COMP 410
ST3293	STEEL, FED STD 66, COMP 416
ST1733	STEEL, FED STD 66, COMP 430
ST6044	STEEL, FED STD 66, COMP 430F
ST3296	STEEL, FED STD 66, COMP 431
ST3548	STEEL, FED STD 66, COMP 1010
ST6061	STEEL, FED STD 66, COMP 1012
ST6063	STEEL, FED STD 66, COMP 1013
ST6064	STEEL, FED STD 66, COMP 1015
ST6068	STEEL, FED STD 66, COMP 1016
ST6069	STEEL, FED STD 66, COMP 1017
ST6071	STEEL, FED STD 66, COMP 1018
ST6072	STEEL, FED STD 66, COMP 1019
ST6073	STEEL, FED STD 66, COMP 1020
ST6077	STEEL, FED STD 66, COMP 1021
ST6078	STEEL, FED STD 66, COMP 1022
ST6079	STEEL, FED STD 66, COMP 1023
ST6081	STEEL, FED STD 66, COMP 1024
ST6082	STEEL, FED STD 66, COMP 1025
ST6084	STEEL, FED STD 66, COMP 1026
ST2460	STEEL, FED STD 66, COMP 1029
ST6086	STEEL, FED STD 66, COMP 1030
ST6089	STEEL, FED STD 66, COMP 1033
ST6091	STEEL, FED STD 66, COMP 1035
ST6094	STEEL, FED STD 66, COMP 1038
ST6096	STEEL, FED STD 66, COMP 1040
ST6102	STEEL, FED STD 66, COMP 1045
ST6106	STEEL, FED STD 66, COMP 1050

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST6115	STEEL, FED STD 66, COMP 1064
ST6116	STEEL, FED STD 66, COMP 1065
ST6118	STEEL, FED STD 66, COMP 1069
ST6119	STEEL, FED STD 66, COMP 1070
ST6120	STEEL, FED STD 66, COMP 1071
ST6121	STEEL, FED STD 66, COMP 1072
ST6122	STEEL, FED STD 66, COMP 1074
ST6123	STEEL, FED STD 66, COMP 1075
ST6124	STEEL, FED STD 66, COMP 1078
ST6125	STEEL, FED STD 66, COMP 1080
ST6126	STEEL, FED STD 66, COMP 1084
ST6127	STEEL, FED STD 66, COMP 1085
ST6129	STEEL, FED STD 66, COMP 1090
ST6133	STEEL, FED STD 66, COMP 1110
ST6134	STEEL, FED STD 66, COMP 1111
ST6135	STEEL, FED STD 66, COMP 1112
ST6136	STEEL, FED STD 66, COMP 1113
ST6948	STEEL, FED STD 66, COMP 1115
ST6137	STEEL, FED STD 66, COMP 1116
ST6138	STEEL, FED STD 66, COMP 1117
ST6139	STEEL, FED STD 66, COMP 1118
ST6949	STEEL, FED STD 66, COMP 1120
ST6142	STEEL, FED STD 66, COMP 1137
ST6145	STEEL, FED STD 66, COMP 1141
ST6146	STEEL, FED STD 66, COMP 1144
ST6155	STEEL, FED STD 66, COMP 1330
ST2383	STEEL, FED STD 66, COMP 2330
ST6163	STEEL, FED STD 66, COMP 3140
ST6174	STEEL, FED STD 66, COMP 4037
ST6175	STEEL, FED STD 66, COMP 4037H
ST6184	STEEL, FED STD 66, COMP 4130
ST6187	STEEL, FED STD 66, COMP 4135H
ST6188	STEEL, FED STD 66, COMP 4137
ST6190	STEEL, FED STD 66, COMP 4140
ST6206	STEEL, FED STD 66, COMP 4340
ST6279	STEEL, FED STD 66, COMP 8630
ST6296	STEEL, FED STD 66, COMP 8735
ST6297	STEEL, FED STD 66, COMP 8740
STD501	STEEL, FED STD 66, COMP 9840H
ST2718	STEEL, FED STD 66, SAE EV4
	Steel, FED STD 66, SAE 1085 (use Reply Code ST6127)
	Steel, FED STD 66, TYPE 302 (use Reply Code ST1817)
	Steel, Forged (use Reply Code ST0000)
	Steel, MIL-B-6812 (Invalid)
ST2290	STEEL, MIL-C-19944, GRADE 8630
ST3164	STEEL, MIL-F-5509
ST7493	STEEL, MIL-S-853

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST7964	STEEL, MIL-S-853, CLASS 6, TYPE E
ST3311	STEEL, MIL-S-853, CLASS 7, TYPE A
ST2031	STEEL, MIL-S-890, ALLOY NO 2
ST1676	STEEL, MIL-S-890, CLASS AN
ST2028	STEEL, MIL-S-890, CLASS B
ST2029	STEEL, MIL-S-890, CLASS C
ST3920	STEEL, MIL-S-4043
ST1894	STEEL, MIL-S-5000
ST2839	STEEL, MIL-S-5000, COMP 4340
ST7496	STEEL, MIL-S-5000, COMP 4340, COND C
STB602	STEEL, MIL-S-5000, COMP 4340, COND E
	Steel, MIL-S-5000, Cond C1 (use Reply Code ST7496)
	Steel, MIL-S-5000, Cond E1 (use Reply Code STB602)
ST2520	STEEL, MIL-S-5059
	Steel, MIL-S-5059, Comp D, Cond H (use Reply Code ST7558)
ST7556	STEEL, MIL-S-5059, COMP 301
ST7558	STEEL, MIL-S-5059, COMP 301, COND H
ST7559	STEEL, MIL-S-5059, COMP 301, COND 1/2 HARD
ST7560	STEEL, MIL-S-5059, COMP 301, COND 1/4 HARD
ST7561	STEEL, MIL-S-5059, COMP 301, COND 3/4 HARD
	Steel, MIL-S-5059, Comp 301, 1/4 Hard, Finish 2B (use Reply Code ST7560)
ST7540	STEEL, MIL-S-5059, COMP 302
ST7568	STEEL, MIL-S-5059, COMP 302, COND 1/2 HARD
ST7569	STEEL, MIL-S-5059, COMP 302, COND 1/4 HARD
STB958	STEEL, MIL-S-5059, COMP 304, 1/2 HARD
	Steel, MIL-S-5059, 1/2 Hard (use Reply Code ST2520)
	Steel, MIL-S-5059, 1/4 Hard (use Reply Code ST2520)
ST2598	STEEL, MIL-S-5626, COMP 4140
	Steel, MIL-S-5626, Cond F (use Reply Code ST2598)
	Steel, MIL-S-5626, Cond N (use Reply Code ST2598)
	Steel, MIL-S-5626 (use Reply Code ST2598)
ST1895	STEEL, MIL-S-6049
ST1896	STEEL, MIL-S-6050
ST8323	STEEL, MIL-S-6050, COND C1
ST1897	STEEL, MIL-S-6098
ST2014	STEEL, MIL-S-6721
STC620	STEEL, MIL-S-6721, COMP 321
ST2778	STEEL, MIL-S-6758, COMP 4130
	Steel, MIL-S-6758, Comp 4130, Cond D (use Reply Code ST2778)
	Steel, MIL-S-6758, Comp 4130 (use Reply Code ST2778)
	Steel, MIL-S-6758, Cond A (use Reply Code ST2778)
	Steel, MIL-S-6758, Cond D (use Reply Code ST2778)
	Steel, MIL-S-6758, Cond D1 (use Reply Code ST2778)
	Steel, MIL-S-6758, Cond D2 (use Reply Code ST2778)
	Steel, MIL-S-6758, Cond D4 (use Reply Code ST2778)
	Steel, MIL-S-6758, Cond F (use Reply Code ST2778)
	Steel, MIL-S-6758, Cond 4 (use Reply Code ST2778)

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	Steel, MIL-S-6758, SAE 4130 (use Reply Code ST2778)
	Steel, MIL-S-6758 (use Reply Code ST2778)
	Steel, MIL-S-7097, Cond B4-Canceled (use Reply Code ST1695)
ST2423	STEEL, MIL-S-7720
ST3225	STEEL, MIL-S-7720, COMP 302, COND A
ST2391	STEEL, MIL-S-7720, COMP 302, COND B
ST2798	STEEL, MIL-S-7720, COMP 303
ST2546	STEEL, MIL-S-7720, COMP 303, COND A
ST1641	STEEL, MIL-S-7720, COMP 303S
ST2775	STEEL, MIL-S-7720, COMP 303S, COND A
ST8724	STEEL, MIL-S-7720, COND A
ST2381	STEEL, MIL-S-8695-CANCELED
ST8368	STEEL, MIL-S-8844, CLASS 1, COND C2
ST7633	STEEL, MIL-S-12560, CLASS 2
ST2801	STEEL, MIL-S-13433-CANCELED
STC880	STEEL, MIL-S-13433, TYPE 1-CANCELED
ST2209	STEEL, MIL-S-15083, GRADE B
ST2814	STEEL, MIL-S-16124, CLASS 1, COMP A-CANCELED
ST3309	STEEL, MIL-S-16124, CLASS 1, COMP B-CANCELED
ST2453	STEEL, MIL-S-18170, COMP 304-CANCELED
ST7541	STEEL, MIL-S-18170, COMP 304, COND A-CANCELED
	Steel, MIL-S-18411, Class 1-Canceled (use Reply Code ST1555)
	Steel, MIL-S-18411, Class 2-Canceled (use Reply Code ST2334)
ST1644	STEEL, MIL-S-18732
ST8008	STEEL, MIL-S-18732, COND A
ST9872	STEEL, MIL-S-18732, COND HT-175
STC881	STEEL, MIL-S-18732, COND HT-200
	Steel, MIL-S-18732, Type 431 (use Reply Code ST1644)
ST8286	STEEL, MIL-S-20166, TYPE A, GRADE M
ST3680	STEEL, MIL-T-6736
ST7507	STEEL, MIL-T-8808, COMP 321
ST7506	STEEL, MIL-T-8808, COMP 347
ST9503	STEEL, MPR-1, CLASS 1020, GRADE MP, NAVAL AIR ENGINEERING CENTER
STB334	STEEL, N, 46-S-17, CLASS 2
STC879	STEEL, N, 49S2J, CLASS B
STC878	STEEL, NASA, MSFC-145, CLASS 316
STC884	STEEL, NAS679, A3W
ST9195	STEEL, PS-53, RCA CORP
ST1718	STEEL, QQ-S-624-CANCELED
ST1437	STEEL, QQ-S-624, COMP 1335-CANCELED
ST1449	STEEL, QQ-S-624, COMP 4037-CANCELED
	Steel, QQ-S-624, FS4037-Canceled (use Reply Code ST1449)
STC853	STEEL, QQ-S-00629, FS4130, TYPE 1-CANCELED
STC854	STEEL, QQ-S-00629, FS4140, TYPE 1-CANCELED
ST2033	STEEL, QQ-S-630-CANCELED
ST2034	STEEL, QQ-S-631-CANCELED
ST1534	STEEL, QQ-S-631, COMP 1010-CANCELED

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1535	STEEL, QQ-S-631, COMP 1015-CANCELED
ST1536	STEEL, QQ-S-631, COMP 1016-CANCELED
ST2298	STEEL, QQ-S-631, COMP 1017-CANCELED
ST1537	STEEL, QQ-S-631, COMP 1018-CANCELED
	Steel, QQ-S-631, Comp 1018-Canceled (use Reply Code ST1537)
STB886	STEEL, QQ-S-631, COMP 1019-CANCELED
ST1695	STEEL, QQ-S-631, COMP 1020-CANCELED
ST2413	STEEL, QQ-S-631, COMP 1021-CANCELED
	Steel, QQ-S-631, COMP 1022-Canceled (use Reply Code ST1698)
ST2299	STEEL, QQ-S-631, COMP 1023-CANCELED
STB894	STEEL, QQ-S-631, COMP 1024-CANCELED
ST1538	STEEL, QQ-S-631, COMP 1025-CANCELED
ST2309	STEEL, QQ-S-631, COMP 1048-CANCELED
	Steel, QQ-S-633, B1112-Canceled (use Reply Code ST2334)
	Steel, QQ-S-633, B1112 TO C1120-Canceled (use Reply Codes ST2334 or ST1556)
	Steel, QQ-S-633-Canceled (use Reply Code ST2034)
	Steel, QQ-S-633, Comp B1112-Canceled (use Reply Code ST2334)
	Steel, QQ-S-633, Comp B1113-Canceled (use Reply Code ST2335)
	Steel, QQ-S-633, Comp C1020-Canceled (use Reply Code ST1695)
	Steel, QQ-S-633, Comp C1022-Canceled (use Reply Code ST1698)
	Steel, QQ-S-633, Comp C1117-Canceled (use Reply Code ST1555)
	Steel, QQ-S-633, Comp C1141-Canceled (use Reply Code ST1558)
	Steel, QQ-S-633, Comp 1018-Canceled (use Reply Code ST1537)
	Steel, QQ-S-633, C1015 thru C1025-Canceled (use Reply Code ST1695)
STC849	STEEL, QQ-S-633, C1052-CANCELED
	Steel, QQ-S-633, FSB 1112-Canceled (use Reply Code ST2334)
	Steel, QQ-S-633, FSB 1113-Canceled (use Reply Code ST2335)
	Steel, QQ-S-633, FS 1010-Canceled (use Reply Code ST1534)
	Steel, QQ-S-633, FS 1015-Canceled (use Reply Code ST1535)
	Steel, QQ-S-633, FS 1020-Canceled (use Reply Code ST1695)
	Steel, QQ-S-633, FS 1117-Canceled (use Reply Code ST1555)
	Steel, QQ-S-633, FS 1118-Canceled (use Reply Code ST1556)
	Steel, QQ-S-633, FS 1137-Canceled (use Reply Code ST1557)
	Steel, QQ-S-633, FS 1141-Canceled (use Reply Code ST1558)
	Steel, QQ-S-633, FS 1213-Canceled (use Reply Code ST2331)
	Steel, QQ-S-633A, B1113-Canceled (use Reply Code ST2335)
	Steel, QQ-S-633A, FSB1113-Canceled (use Reply Code ST2335)
	Steel, QQ-S-634, Comp C1015 to C1025 (use Reply Code ST1548)
ST1548	STEEL, QQ-S-634, COMP 1018-CANCELED
ST1698	STEEL, QQ-S-634, COMP 1022
ST2035	STEEL, QQ-S-637
ST2334	STEEL, QQ-S-637, COMP B1112
ST2335	STEEL, QQ-S-637, COMP B1113
ST2336	STEEL, QQ-S-637, COMP 12L14
	Steel, QQ-S-637, Comp 1113 (use Reply Code ST2335)
ST1555	STEEL, QQ-S-637, COMP 1117
ST1556	STEEL, QQ-S-637, COMP 1118

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1557	STEEL, QQ-S-637, COMP 1137
ST1558	STEEL, QQ-S-637, COMP 1141
ST2331	STEEL, QQ-S-637, COMP 1213
ST2910	STEEL, QQ-S-671, FS1112-CANCELED
ST1720	STEEL, QQ-S-681, CLASS 65-35
ST2231	STEEL, QQ-S-681, CLASS 70-36
ST0977	STEEL, QQ-S-698
ST0948	STEEL, QQ-S-698, COMP 1015
ST8546	STEEL, QQ-S-700, COMP 1050
ST2032	STEEL, QQ-S-763
	Steel, QQ-S-763, Class 7, TYPE A (use Reply Code ST1859)
	Steel, QQ-S-763, Class 7 (use Reply Code ST1767)
ST1646	STEEL, QQ-S-763, CLASS 302
ST2648	STEEL, QQ-S-763, CLASS 302, COND A
	Steel, QQ-S-763, Class 303, Cond A (use Reply Code ST1859)
	Steel, QQ-S-763, Class 303, Cond B (use Reply Code ST2394)
	Steel, QQ-S-763, Class 303, Cond C (use Reply Code ST2394)
	Steel, QQ-S-763, Class 303 (use Reply Code ST1767)
ST1649	STEEL, QQ-S-763, CLASS 304
ST1839	STEEL, QQ-S-763, CLASS 304, COND A
ST1783	STEEL, QQ-S-763, CLASS 304, COND B
ST8052	STEEL, QQ-S-763, CLASS 304L, COND A
ST1654	STEEL, QQ-S-763, CLASS 316
ST1784	STEEL, QQ-S-763, CLASS 316, COND A
ST3168	STEEL, QQ-S-763, CLASS 316, COND B
ST2350	STEEL, QQ-S-763, CLASS 316L
ST2695	STEEL, QQ-S-763, CLASS 316L, COND A
ST1656	STEEL, QQ-S-763, CLASS 321
ST2369	STEEL, QQ-S-763, CLASS 321, COND A
ST7061	STEEL, QQ-S-763, CLASS 324
ST1657	STEEL, QQ-S-763, CLASS 347
ST1660	STEEL, QQ-S-763, CLASS 410
ST1785	STEEL, QQ-S-763, CLASS 410, COND A
ST1786	STEEL, QQ-S-763, CLASS 410, COND H
ST3238	STEEL, QQ-S-763, CLASS 410, COND T
	Steel, QQ-S-763, Class 416, Cond A (use Reply Code ST2436)
	Steel, QQ-S-763, Class 416, Cond C (use Reply Code ST7682)
	Steel, QQ-S-763, Class 416 (use Reply Code ST1773)
ST1664	STEEL, QQ-S-763, CLASS 420
ST1666	STEEL, QQ-S-763, CLASS 431
	Steel, QQ-S-763, Grade 7 (use Reply Code ST1767)
	Steel, QQ-S-763, TYPE 302, 303, 304, 305 or 306 (use Reply Codes ST1646 or ST1767 or ST1649)
ST2421	STEEL, QQ-S-764-CANCELED
ST1767	STEEL, QQ-S-764, TYPE 303-CANCELED
ST1859	STEEL, QQ-S-764, TYPE 303, COND A-CANCELED
ST2394	STEEL, QQ-S-764, TYPE 303, COND B-CANCELED

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST1773	STEEL, QQ-S-764, TYPE 416-CANCELED
ST2436	STEEL, QQ-S-764, TYPE 416, COND A-CANCELED
ST7682	STEEL, QQ-S-764, TYPE 416, COND C
ST2545	STEEL, QQ-S-766
ST1746	STEEL, QQ-S-766, CLASS 201
ST1748	STEEL, QQ-S-766, CLASS 301
ST1750	STEEL, QQ-S-766, CLASS 302
ST2673	STEEL, QQ-S-766, CLASS 302, COND A
ST2626	STEEL, QQ-S-766, CLASS 304, COND A
ST8519	STEEL, QQ-S-766, CLASS 305, COND A
ST1760	STEEL, QQ-S-766, CLASS 321
ST2357	STEEL, QQ-S-766, CLASS 430
	Steel, QQ-S-770, COND A-CANCELED
ST2624	STEEL, QQ-S-777-CANCELED
ST3235	STEEL, QQ-W-423
ST2628	STEEL, QQ-W-423, COMP 302, COND B
ST9904	STEEL, QQ-W-423, COMP 316, COND B
ST3429	STEEL, QQ-W-428, TYPE 1
	Steel, SAE X1112 (use Reply Code ST6135)
STC850	STEEL, SAE X1915
	Steel, SAE 316 (use Reply Code ST3286)
	Steel, SAE 1010 (use Reply Code ST3548)
	Steel, SAE 1015 (use Reply Code ST6064)
	Steel, SAE 1016 (use Reply Code ST6068)
	Steel, SAE 1017 (use Reply Code ST6069)
	Steel, SAE 1018 (use Reply Code ST6071)
	Steel, SAE 1019 (use Reply Code ST6072)
	Steel, SAE 1020 (use Reply Code ST6073)
	Steel, SAE 1021 (use Reply Code ST6077)
	Steel, SAE 1022 (use Reply Code ST6078)
	Steel, SAE 1023 (use Reply Code ST6079)
	Steel, SAE 1024 (use Reply Code ST6081)
	Steel, SAE 1025 (use Reply Code ST6082)
	Steel, SAE 1035 (use Reply Code ST6091)
	Steel, SAE 1064 (use Reply Code ST6115)
	Steel, SAE 1065 (use Reply Code ST6116)
	Steel, SAE 1080 (use Reply Code ST6125)
	Steel, SAE 1090 (use Reply Code ST6129)
	Steel, SAE 1111 (use Reply Code ST6134)
	Steel, SAE 1112 (use Reply Code ST6135)
	Steel, SAE 1113 (use Reply Code ST6136)
	Steel, SAE 1115 (use Reply Code ST6948)
	Steel, SAE 1117 (use Reply Code ST6138)
	Steel, SAE 1137 (use Reply Code ST6142)
	Steel, SAE 1141 (use Reply Code ST6145)
STA048	STEEL, SAE 1315
	Steel, SAE 2330 (use Reply Code ST2383)

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
	Steel, SAE 3140 (use Reply Code ST6163)
	Steel, SAE 4130 (use Reply Code ST6184)
	Steel, SAE 8740 (use Reply Code ST6297)
	Steel, SAE 30304 (use Reply Code ST2526)
	Steel, SAE 51416 (use Reply Code ST3293)
STF000	STEEL, SPRING
	Steel, Stainless (use Reply Code STB000)
STD145	STEEL, WW-P-471, TYPE 2-CANCELED
STC852	STEEL, 270, WALLACE AND TIERNAN INC
STF035	STEEL, 302, NAVAL AIR ENGINEERING CENTER
STC851	STEEL, 2757, SANGAMO ELECTRIC CO
ST8359	STEEL, 31000, FEDERAL-MOGUL CORP
TTA000	TITANIUM
TT0000	TITANIUM ALLOY
TT0004	TITANIUM ALLOY, AMS 4921
ZN0000	ZINC

Table 2 - SURFACE TREATMENTS
SURFACE TREATMENTS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AN0000	ANODIZED
AN0045	ANODIZED, AMS 2470
	Anodized Black (use Reply Code AN0000)
	Anodized Gray (use Reply Code AN0000)
AN0277	ANODIZED, HS334, TYPE 2, UNITED AIRCRAFT CORP
AN0217	ANODIZED, LCP77-2037, Class 1, GRADE A, TYPE 1, LOCKHEED AIRCRAFT CORP
AN0002	ANODIZED, MIL-A-8625
AN0064	ANODIZED, MIL-A-8625, CLASS 2
AN0003	ANODIZED, MIL-A-8625, TYPE 1
AN0004	ANODIZED, MIL-A-8625, TYPE 2
AN0008	ANODIZED, MIL-A-8625, TYPE 2, CLASS 2
AN0057	ANODIZED, MIL-A-8625, TYPE 3
AN0009	ANODIZED, MIL-A-8625, TYPE 3, CLASS 1
AN0032	ANODIZED, QQ-A-696
A	ANY ACCEPTABLE (use for D Mode)
AAAAAA	ANY ACCEPTABLE (use for H Mode)
	Black Dip (use Reply Code XX0000)
	Black Oxide Coated (use Reply Code XX0000)
	Black Oxide (use Reply Code XX0000)
BN0000	BRONZE
CD0000	CADMIUM
CD0001	CADMIUM, AMS 2400
	Cadmium and Enamel (use Reply Codes CD0000 and EN0000)

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
	Cadmium Bronze, Silver Plated (use Reply Codes CD0000, BN0000 and AG0000)
	Cadmium Coated (use Reply Code CD0000)
	Cadmium, Dichromate Treated (use Reply Codes CD0000 and DC0000)
CD0366	CADMIUM, LCP77-1061, CLASS 2, TYPE 2, LOCKHEED AIRCRAFT CORP
CD0367	CADMIUM, LCP77-1061, LOCKHEED AIRCRAFT CORP
CD0055	CADMIUM, MIL-C-8937
	Cadmium Plated, QQ-P-416, Type 1, Class 3 (use Reply Code CD0006)
	Cadmium Plated (use Reply Code CD0000)
	Cadmium Plated W/Black Paint (use Reply Codes CD0000 and PN0000)
	Cadmium Plated W/Chromate (use Reply Codes CD0000 and CN0000)
CD0445	CADMIUM, PS1919003, TYPE 2, THE BENDIX CORP
CD0015	CADMIUM, QQ-P-416
	Cadmium, QQ-P-416, Type 1, Class C (use Reply Code CD0006)
CD0004	CADMIUM, QQ-P-416, TYPE 1, CLASS 1
CD0005	CADMIUM, QQ-P-416, TYPE 1, CLASS 2
CD0006	CADMIUM, QQ-P-416, TYPE 1, CLASS 3
CD0114	CADMIUM, QQ-P-416, TYPE 2
CD0008	CADMIUM, QQ-P-416, TYPE 2, CLASS 2
CD0009	CADMIUM, QQ-P-416, TYPE 2, CLASS 3
CD0012	CADMIUM, QQ-P-416, TYPE 3, CLASS 3
	Cadmium W/Chromate (use Reply Codes CD0000 and CN0000)
CD0357	CADMIUM W/DICHROMATE, F70C3A, GENERAL ELECTRIC CO
	Cadmium W/Dichromate (use Reply Codes CD0000 and DC0000)
	Chemical Film, MIL-C-5541 (use Reply Code XX0002)
CN0000	CHROMATE
	Chromate, Olive Drab (use Reply Code CN0000)
	Chrome Plated (use Reply Code CR0000)
KDB000	CHROMIC ACID
CR0000	CHROMIUM
	Chromium Plated (use Reply Code CR0000)
CR0072	CHROMIUM, QQ-C-320, CLASS 2B
DC0000	DICHROMATE
TDC000	ELECTROTINNED
EN0000	ENAMEL
	Enamel, Lusterless (use Reply Code EN0000)
	Enamel, Olive Drab (use Reply Code EN0000)
EN0002	ENAMEL, TT-E-489
EN0060	ENAMEL, TT-E-529, CLASS A, OLIVE DRAB
	Enameled (use Reply Code EN0000)
	Galvanized (use Reply Code ZN0000)
AUG000	GOLD PLATED
LQ0000	LACQUER
LQ0048	LACQUER, ACRYLIC, GSS 4407, GRUMMAN AEROSPACE CORP
	Lacquer, Blue (use Reply Code LQ0000)
	Lacquered (use Reply Code LQ0000)
PBD000	LEAD ALLOY
MNC000	MANGANESE PHOSPHATE

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
MN0006	MANGANESE PHOSPHATE BASE, MIL-P-16232, TYPE M, CLASS 1
NF0000	NICKEL
NF0229	NICKEL PLATED, QQ-N-290, CLASS 1, TYPE 2 Nickel Plated (use Reply Code NF0000)
XX0000	OXIDE
XX0002	OXIDE FILM, MIL-C-5541
XX0012	OXIDE FILM, MIL-C-5541, TYPE 1, GRADE C, CLASS 1 Oxidized (use Reply Code XX0000) Paint, Aluminum (use Reply Code PN0000)
PN0000	PAINTED
BLA000	PARKERIZED
PS0000	PASSIVATED
PS0312	PASSIVATED, GSS7021, GRUMMAN AEROSPACE CORP
PS0008	PASSIVATED, MIL-F-14072, FINISH E300
PS0003	PASSIVATED, MIL-S-5002
PS0035	PASSIVATED, MPS 205, TYPE 3, MARQUARDT CORP
PS0007	PASSIVATED, QQ-P-35
PS0005	PASSIVATED, QQ-P-35, TYPE 2
PEA000	PENETRATE BLACK
PH0000	PHOSPHATE Phosphate Coated (use Reply Code PH0000)
PH0077	PHOSPHATE, DEF 29 CLASS 1 Phosphate Dip (use Reply Code PH0000) Phosphate Finish W/Zinc Chromate (use Reply Codes PH0000 and ZNA000)
PH0002	PHOSPHATE, MIL-C-16232-CANCELED
PH0032	PHOSPHATE, MIL-C-16232, TYPE 1-CANCELED
RCAAE0	RUBBER, CHLOROSULFONATED POLYETHYLENE
RCAAAA	RUBBER, NEOPRENE LATEX
AG0000	SILVER Silver Coated (use Reply Code AG0000) Silver Lume (use Reply Code AG0000) Silver Plated (use Reply Code AG0000)
SNF000	TIN PLATED
WA0000	WAX
ZN0000	ZINC
ZN0045	ZINC, ASTM A153
ZNA000	ZINC CHROMATE Zinc Coated (use Reply Code ZN0000) Zinc, Dichromate Treated (use Reply Code ZN0000 and DC0000) Zinc Plated (use Reply Code ZN0000)
ZN0002	ZINC, QQ-Z-325, TYPE 1, CLASS 2
ZN0003	ZINC, QQ-Z-325, TYPE 1, CLASS 3 Zinc W/Dichromate (use Reply Code ZN0000 and DC0000)

Table 3 - THREAD SERIES
THREAD SERIES

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>
AM	ACME
AC	ACME C
AG	ACME G
AN	ANPT
A	ANY ACCEPTABLE
AW	ASA
BF	BSF
ZP	BSP.L
PL	BSP.PL
BS	BSP.TR EXT
BR	BSP.TR INT
SM	ISO M
SS	ISO S
MB #	METRIC TAPERED EXTERNAL, DIN 158
NX	N 5
NL	NCT
ET	NET
FS	NFS
NG	NGO
GS	NGS
GT	NGT
NH	NH
NK #	NONSTANDARD ROUND
PG	NPI
SP	NPS
SC	NPSC
SF	NPSF
SH	NPSH
PS	NPSI
SL	NPSL
PM	NPSM
NP	NPT
PR	NPT-MODIFIED
NT	NPTF
TR	NPTR
TS	NPTS
SN	NS-2
PW	PT
PH	PTF
RD	ROUND
RG #	ROUND, DIN 405
RK #	ROUND, DIN 7272
RS #	ROUND, DIN 20400
RM #	ROUND, DIN 70156
RP	RPT

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>
SW	SAE
UN	UN
ND	UN-MODIFIED
NC	UNC
NE	UNEF
NF	UNF
MD	UNF-MODIFIED
NJ	UNJ
JC	UNJC
JF	UNJF
NM	UNM
NS	UNS
WB #	WHITWORTH STRAIGHT INTERNAL PIPE, DIN 3858
WA #	WHITWORTH TAPERED EXTERNAL PIPE, DIN 3858

Table 4 - NONDEFINITIVE SPEC/STD DATA
NONDEFINITIVE SPEC/STD DATA

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH

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<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
BA	IMAGE COLOR
NS	INSERT
TM	ITEM
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
AA	MARKER
ML	MATERIAL
BB	MAXIMUM DENSITY
MH	MESH
ME	METHOD
BC	MINIMUM DENSITY
MD	MODEL
MT	MOUNTING
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE

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APPENDIX A

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER
TX	TEXTURE
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

Reference Drawing Groups

REFERENCE DRAWING GROUP A Tables	170
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REFERENCE DRAWING GROUP E	187
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REFERENCE DRAWING GROUP G Tables	192
REFERENCE DRAWING GROUP G	194
REFERENCE DRAWING GROUP H	196
REFERENCE DRAWING GROUP J Tables	197
REFERENCE DRAWING GROUP J	198
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REFERENCE DRAWING GROUP K	200
REFERENCE DRAWING GROUP L Tables	202
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REFERENCE DRAWING GROUP R Tables	209
REFERENCE DRAWING GROUP R	210
REFERENCE DRAWING GROUP S	212
REFERENCE DRAWING GROUP T Tables	214
REFERENCE DRAWING GROUP T	215
REFERENCE DRAWING GROUP U Tables	217
REFERENCE DRAWING GROUP U	218
REFERENCE DRAWING GROUP V Tables	220
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REFERENCE DRAWING GROUP A Tables
COUPLING AND INVERTED NUT STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABHPJAA0.180*; ABHPJLA15.0*; ABHPJAB0.175\$\$JAC0.185*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

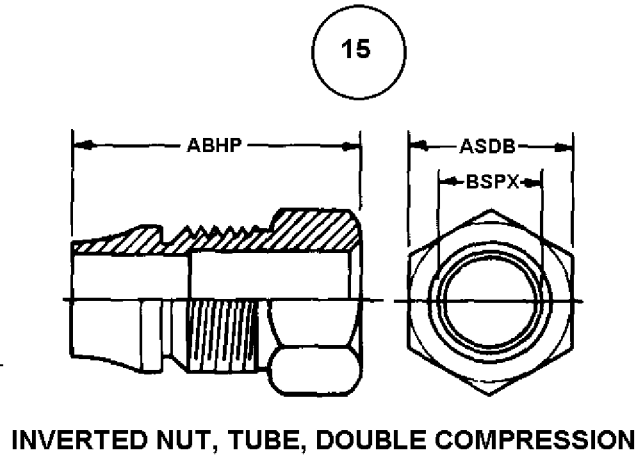
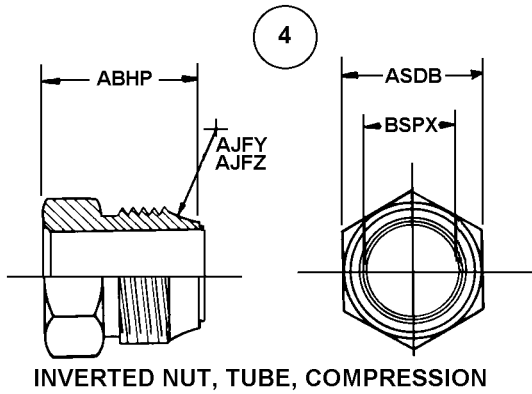
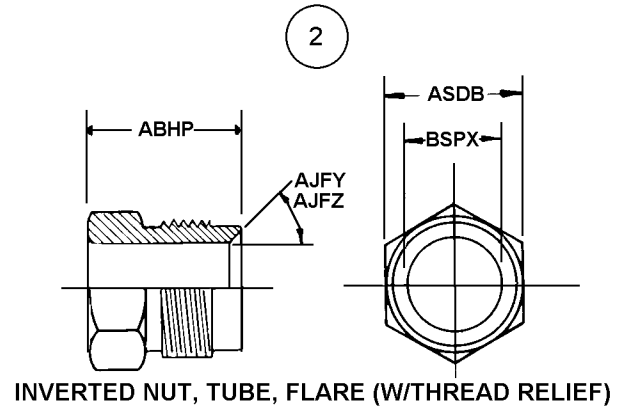
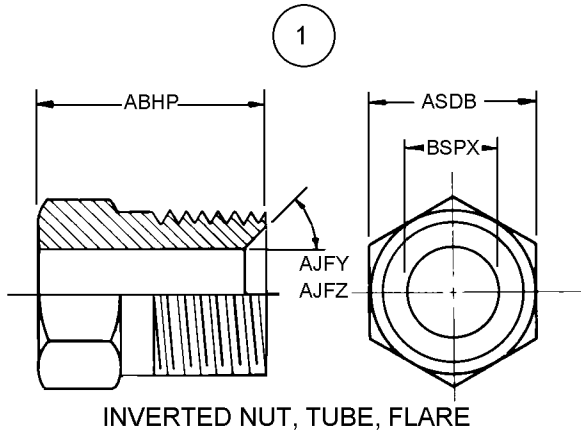
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABHP	J	OVERALL LENGTH
AJFZ	J	SEAT RADIUS
ASDB	J	WIDTH ACROSS FLATS
BSPX	J	SMALLEST INSIDE DIAMETER

Enter the numeric value. (e.g., AJFYB20.0*)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AJFY	B	SEAT ANGLE IN DEG

REFERENCE DRAWING GROUP A

COUPLING AND INVERTED NUT STYLES



REFERENCE DRAWING GROUP C Tables
PACKING NUTS

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., BRQLJAA0.125*; BRQLJAB0.120\$\$JAC0.130*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AAUB	J	HOLE DIAMETER
ABGC	J	SLOT WIDTH
ABHP	J	OVERALL LENGTH
ABVA	J	UNTHREADED PORTION LENGTH
AGRU	J	LARGEST INSIDE DIAMETER
AGWL	J	SMALLEST OUTSIDE DIAMETER
ASDB	J	WIDTH ACROSS FLATS
BRQL	J	LENGTH TO SHOULDER
BSPX	J	SMALLEST INSIDE DIAMETER
CFQG	J	MAJOR UNTHREADED OUTSIDE DIAMETER

Enter the Quantity. (e.g., CFQHA4*)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABKT	A	HOLE OR SLOT QUANTITY
CFQH	A	PROTRUSION QUANTITY

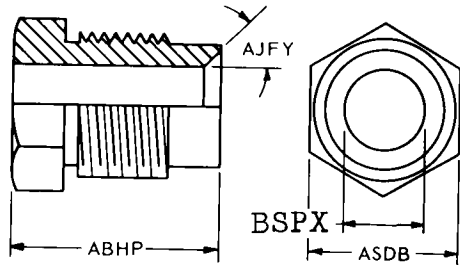
Enter the numeric value. (e.g., AJFYB90.0)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AJFY	B	SEAT ANGLE IN DEG

REFERENCE DRAWING GROUP C

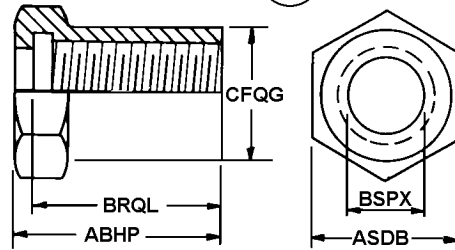
PACKING NUTS

①



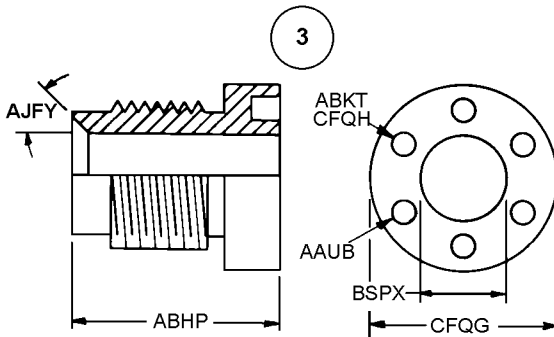
HEXAGON, EXTERNAL THREAD,
INVERTED FLARE

②

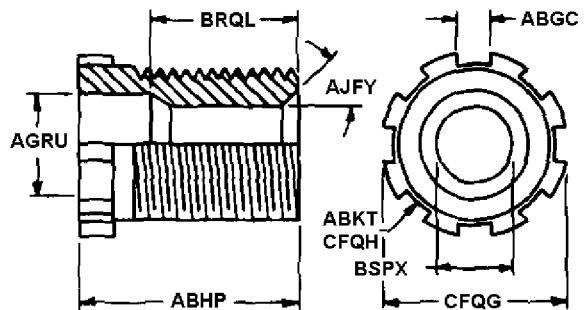


HEXAGON, INTERNAL THREAD,
SHOULDERED

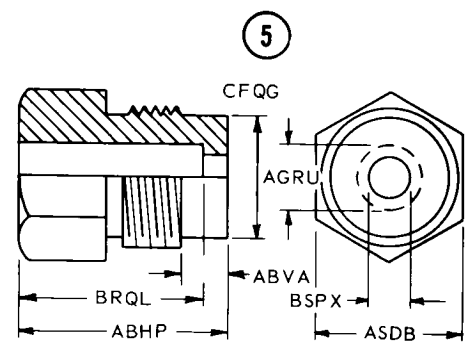
④



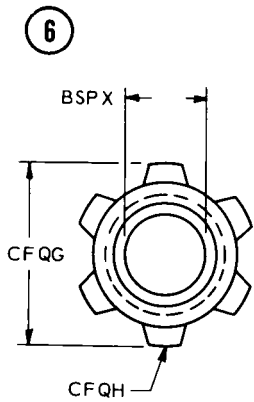
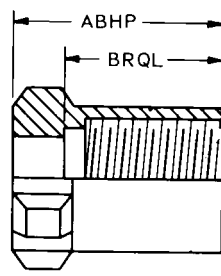
ROUND, EXTERNAL THREAD,
INVERTED FLARE



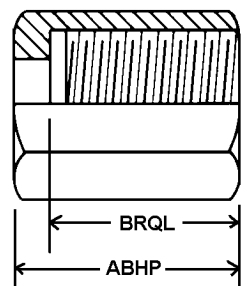
ROUND, EXTERNAL, THREAD
INVERTED FLARE



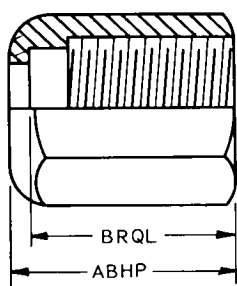
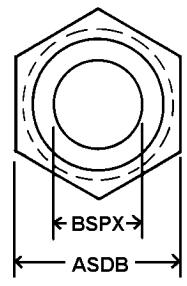
HEXAGON, EXTERNAL THREAD, SHOULDERED



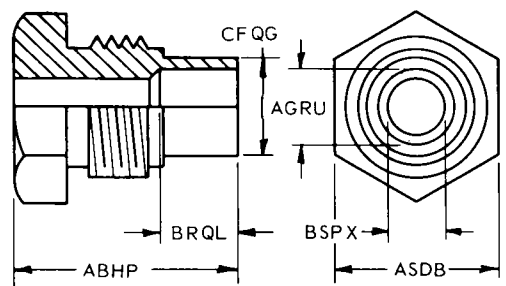
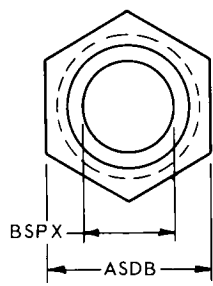
ROUND, INTERNAL THREAD, SHOULDERED



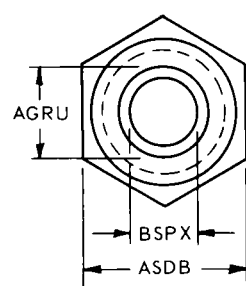
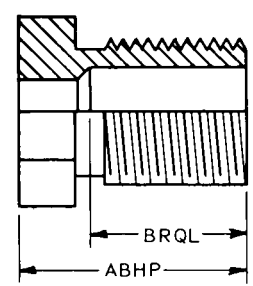
HEXAGON, INTERNAL THREAD, SHOULDERED



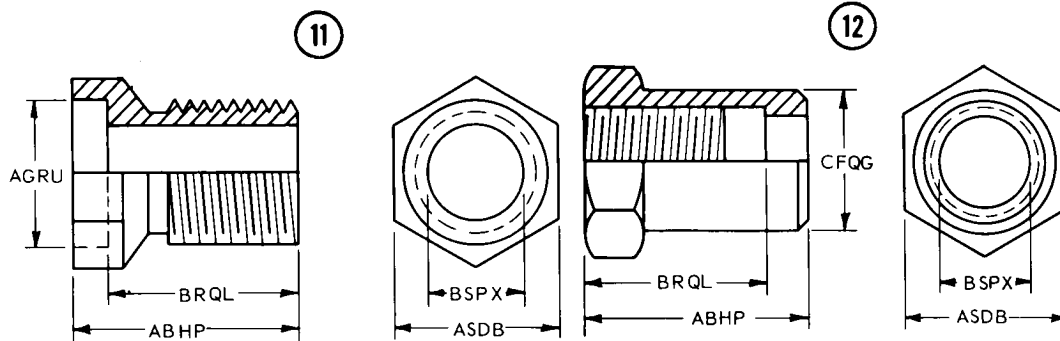
HEXAGON, INTERNAL THREAD, SHOULDERED



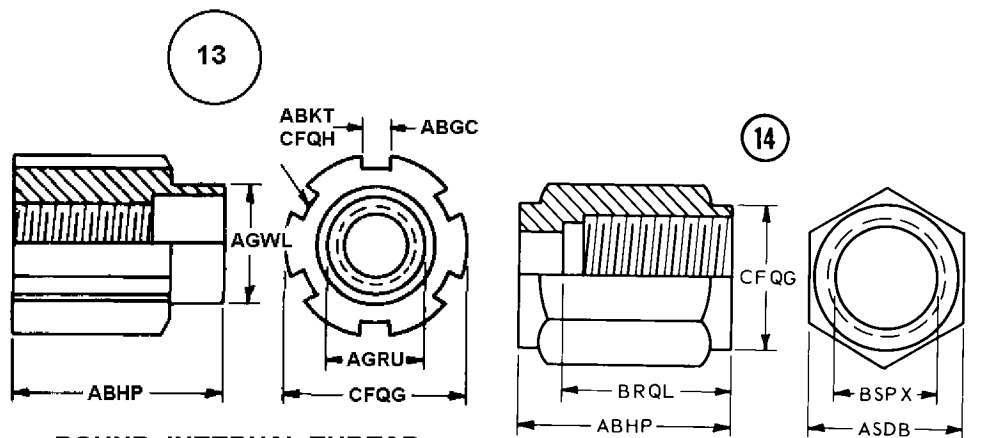
HEXAGON, EXTERNAL THREAD, INTERNAL SHOULDER



HEXAGON, EXTERNAL THREAD, INTERNAL SHOULDER

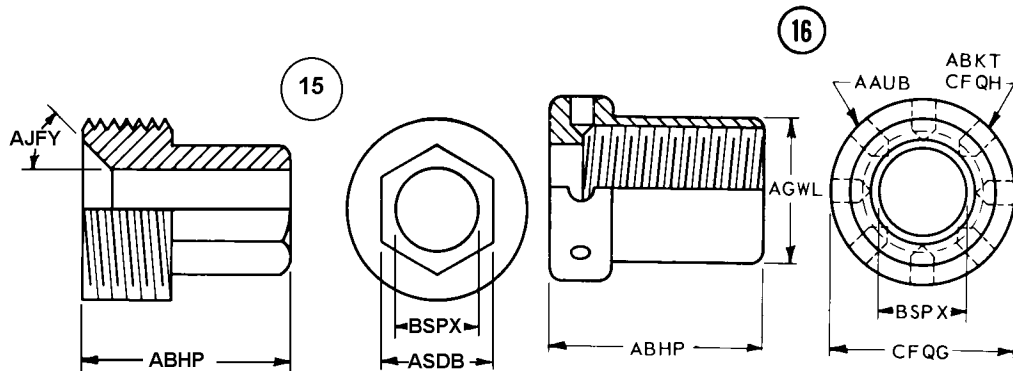


HEXAGON, EXTERNAL THREAD, RECESSED HEAD HEXAGON, INTERNAL THREAD, SHOULDERED



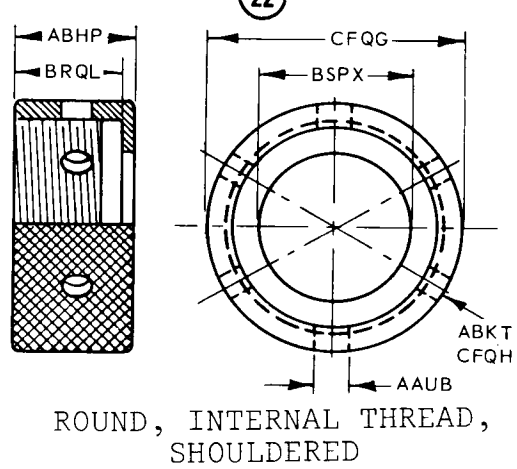
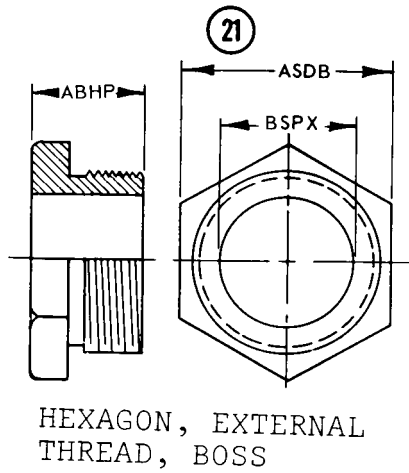
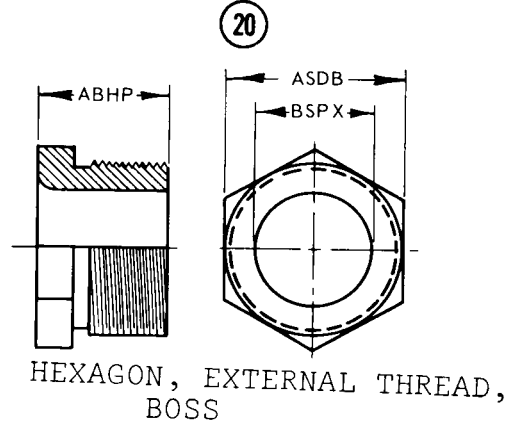
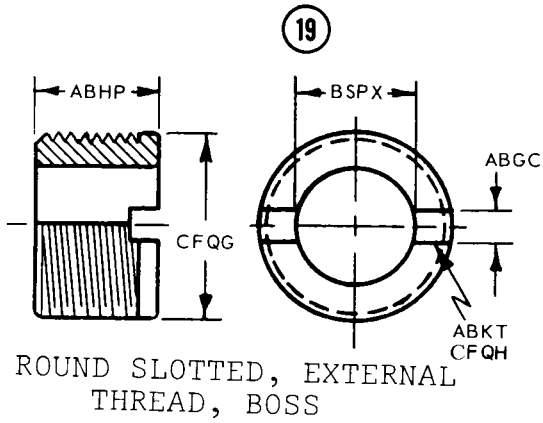
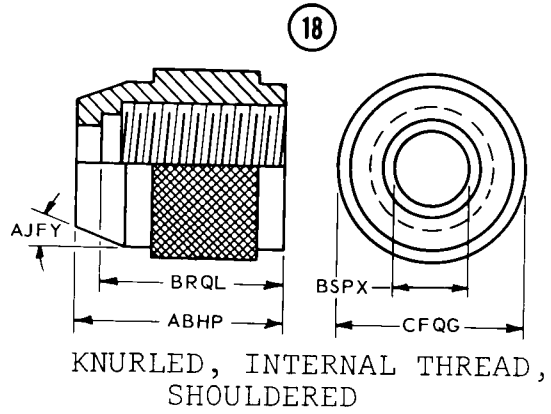
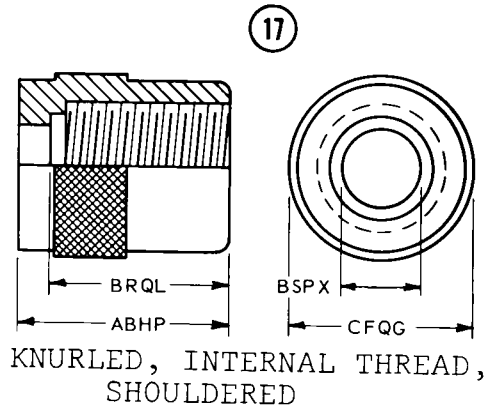
ROUND, INTERNAL THREAD, SHOULDERED

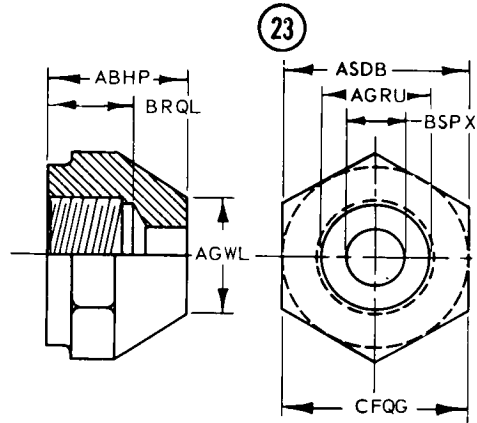
HEXAGON, INTERNAL THREAD, SHOULDERED



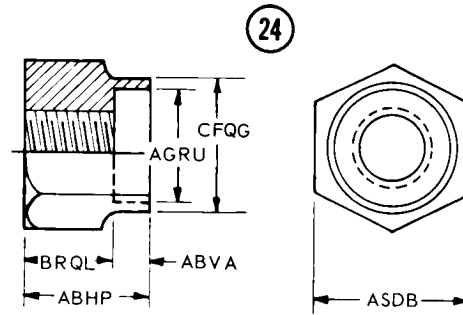
HEXAGON, EXTERNAL THREAD, INVERTED FLARE

ROUND, INTERNAL THREAD, SHOULDERED

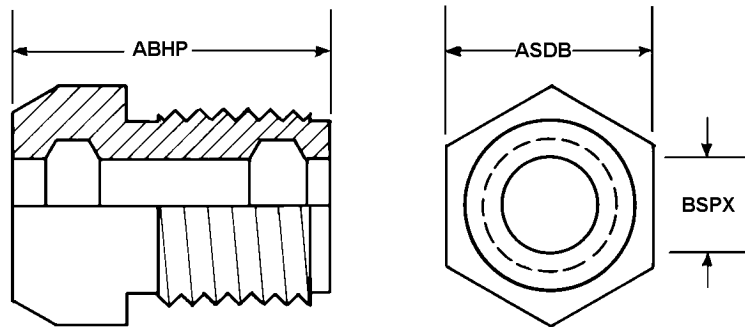




HEXAGON, INTERNAL THREAD,
SHOULDERED



HEXAGON, INTERNAL THREAD,
SHOULDERED



HEXAGON, EXTERNAL THREAD, DOUBLE RECESS

26

Use Style Number "26" for items whose shapes cannot be identified to the basic geometric shapes depicted by styles 1 through 25 and record dimensions as follows:

ABHP - record the overall length
ASDB - record the width across flats
BSPX - record the smallest inside diameter

IRREGULAR

REFERENCE DRAWING GROUP D Tables
FLUID PRESSURE LINE FITTINGS

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABHPJAA3.000*; ABHPJAB2.975\$\$JAC3.025*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABHP	J	OVERALL LENGTH
ABMK	J	OVERALL WIDTH
ABMZ	J	DIAMETER
ABNM	J	THICKNESS
ABTB	J	MOUNTING HOLE DIAMETER
AHNX	J	BOLT HOLE DIAMETER
CFQL	J	SECOND BOLT HOLE DIAMETER
CGLW	J	MOUNTING SLOT HEIGHT

Enter the numeric value. (e.g., CFQMB90.0*)

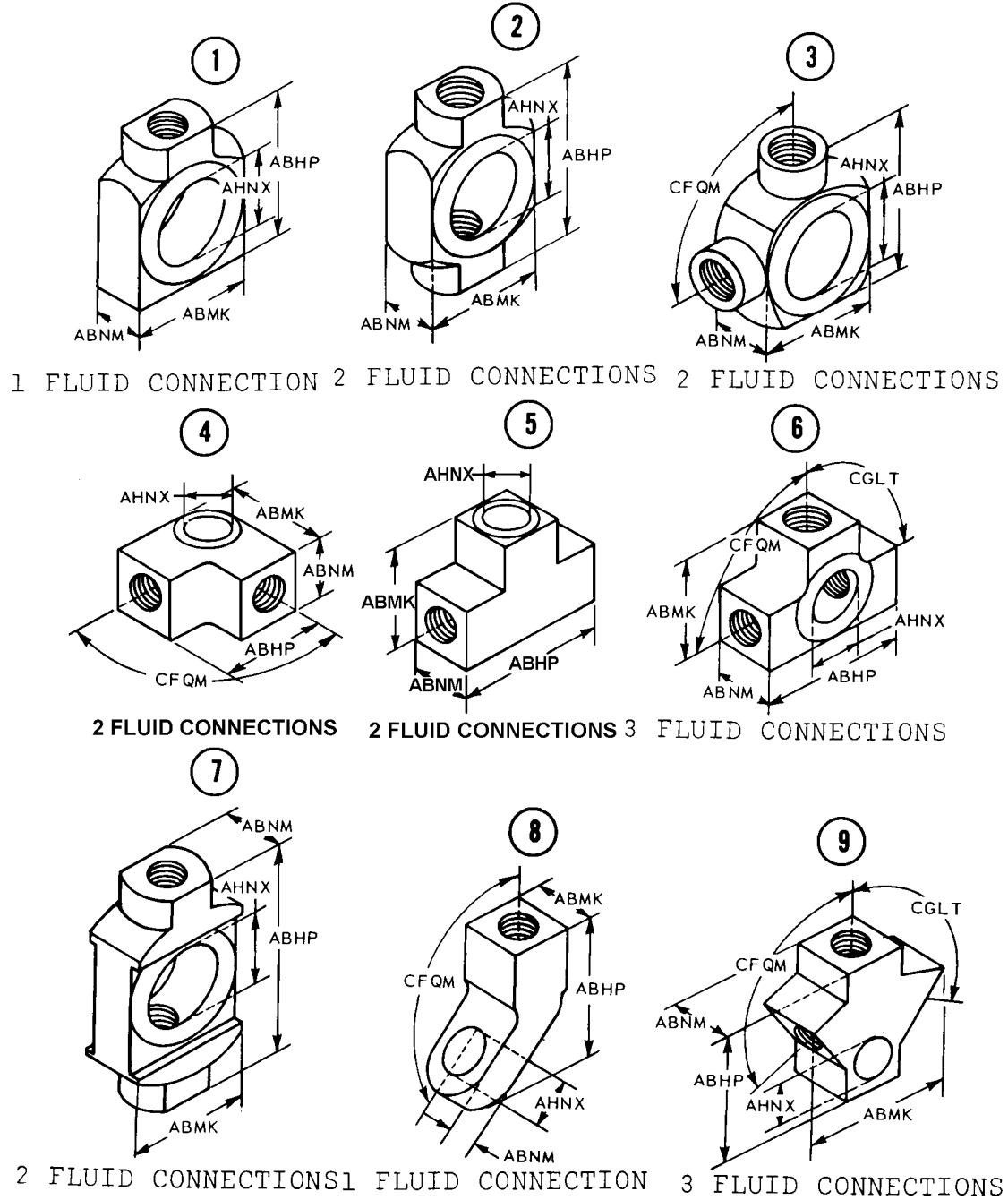
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
CFQM	B	DEG BETWEEN OUTLETS
CGLT	B	SECOND DEG BETWEEN OUTLETS

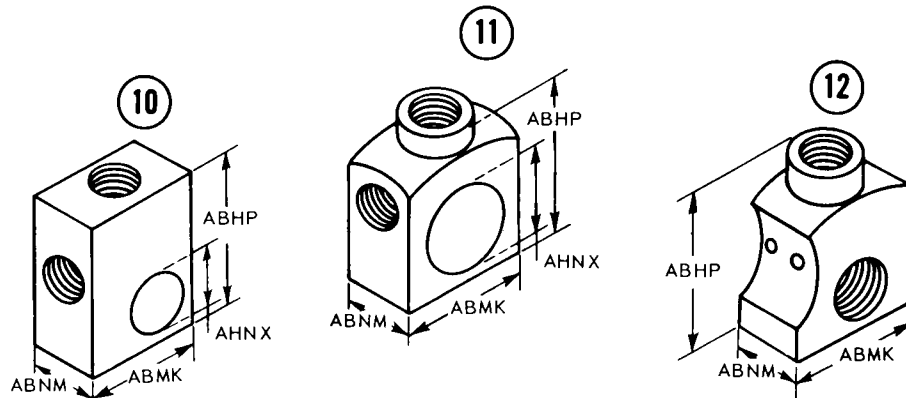
Applicable to items having two or more fluid connections and having different sizes. Styles 2, 3, 4, 5, 7, 23, 41, 42, and 43 - List smallest connection first. Styles 6, 9, 10, 11, 13, 19, 21, and 44 - With central connection vertical and smallest connection to the left, list clockwise starting at the left. Style 12 - Facing the formed mating surface, and with the boss vertical, list clockwise replying "blank face" where appropriate. Styles 20 and 24 - Facing the blank face opposite the protruding connection and with one connection to the left and one on top. list left connection then the top followed by the protruding connection data. Style 22 - Facing the connection opposite the male connection, with one connection on top and one to the left, list the connection

facing the observer first and the rest in the following order: Left, top, male. Styles 25, 26, 30, 31, 32, 34, and 35 - With blank face (or plug) away from observer, list connection facing the observer first, list radial connections clockwise, starting at the top opening with one of the smallest connections in that position. Adjacent identical connections will be grouped. Style 27 - With mounting plate down and horizontal connection to the left list clockwise from the left. Style 28 - With connection on ABNM dimension to the left, list connection from left to right. Style 33 - Facing the central connection with flange down, list from left to right. Style 37 - Facing the formed mating surface with boss vertical, list from left to right. Style 39 and 40 - With male connection away from the observer, list the connection facing the observer first. List radial connections clockwise starting at the top with one of the smallest connections in that position. Adjacent identical connections data will be grouped. List male data last.

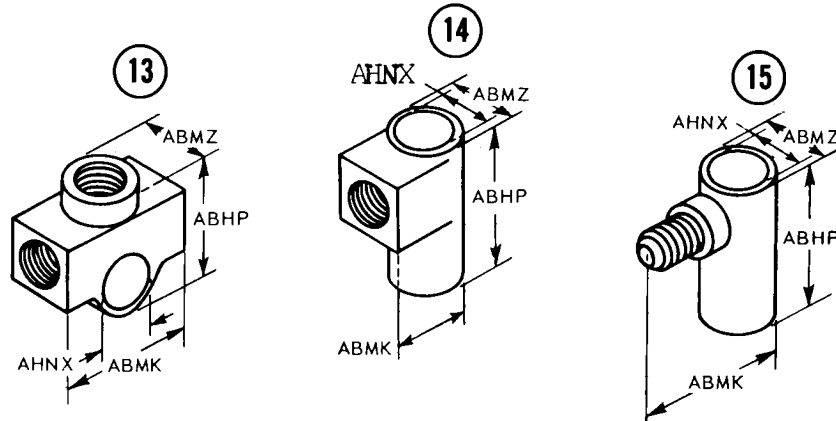
REFERENCE DRAWING GROUP D

FLUID PRESSURE LINE FITTINGS

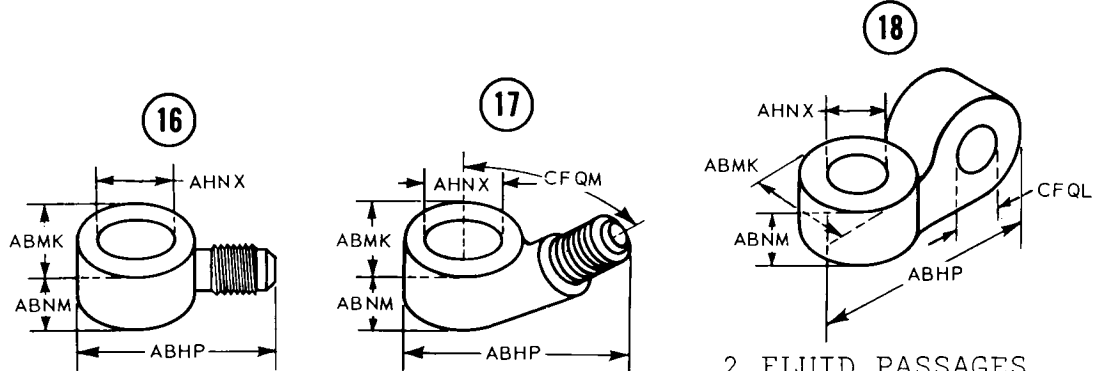




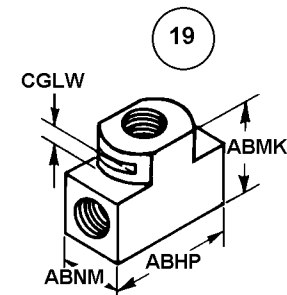
3 FLUID CONNECTIONS 3 FLUID CONNECTIONS 2 FLUID CONNECTIONS



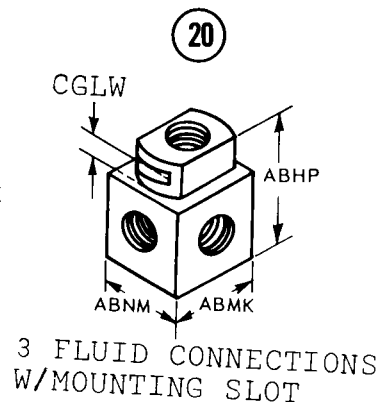
3 FLUID CONNECTIONS 1 FLUID CONNECTION 1 FLUID CONNECTION



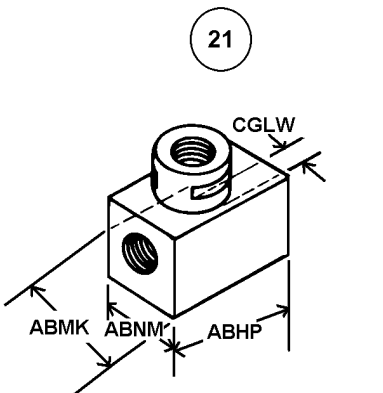
1 FLUID CONNECTION 1 FLUID CONNECTION 2 FLUID PASSAGES,
NO FLUID CONNECTIONS



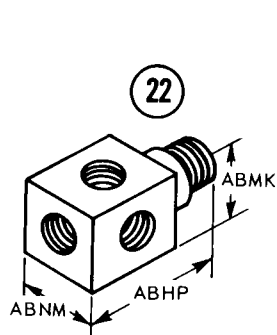
3 FLUID CONNECTIONS
W/MOUNTING SLOT



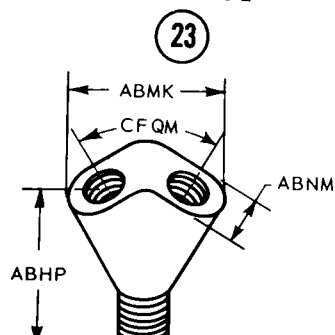
3 FLUID CONNECTIONS
W/MOUNTING SLOT



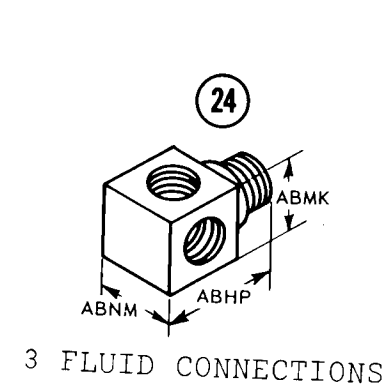
3 FLUID CONNECTIONS
W/MOUNTING SLOT



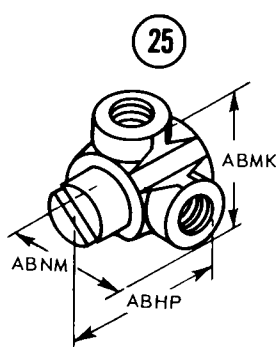
4 FLUID CONNECTIONS



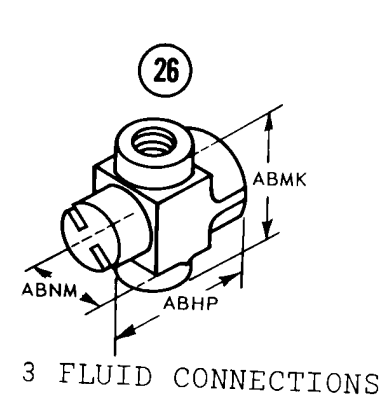
3 FLUID CONNECTIONS



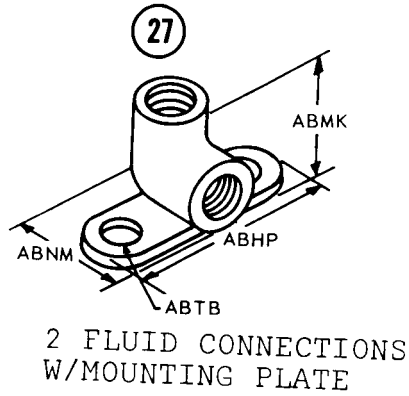
3 FLUID CONNECTIONS



4 FLUID CONNECTIONS

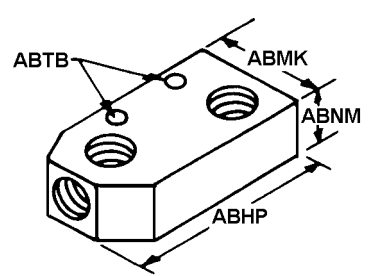


3 FLUID CONNECTIONS



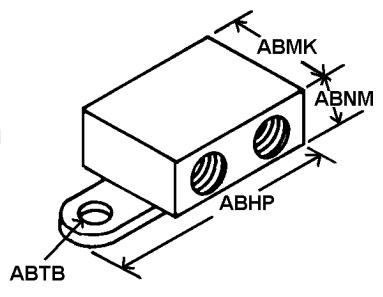
2 FLUID CONNECTIONS
W/MOUNTING PLATE

28



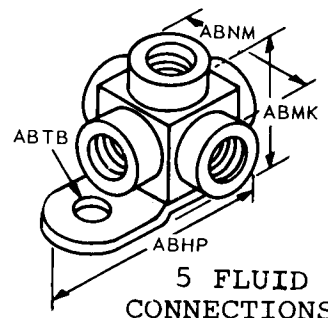
3 FLUID CONNECTIONS
W/MOUNTING HOLES

29



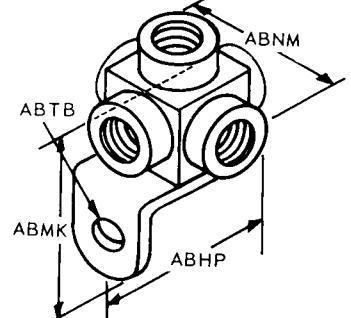
2 FLUID CONNECTIONS
W/MOUNTING PLATE

30



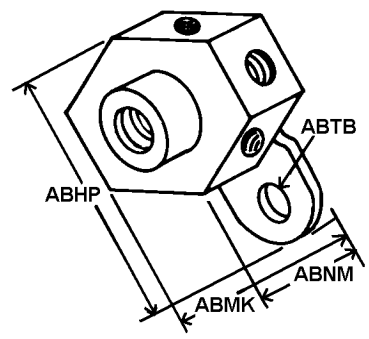
5 FLUID
CONNECTIONS
W/MOUNTING PLATE

31



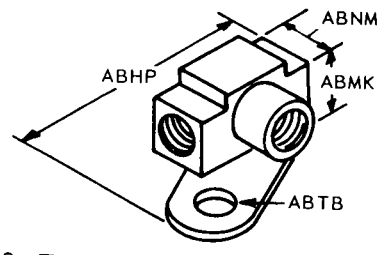
5 FLUID CONNECTIONS
W/MOUNTING PLATE

32



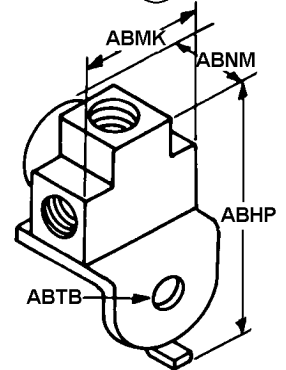
7 FLUID CONNECTIONS
W/MOUNTING PLATE

33



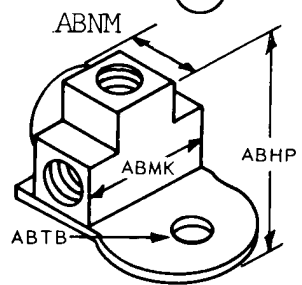
3 FLUID CONNECTIONS
W/MOUNTING PLATE

34



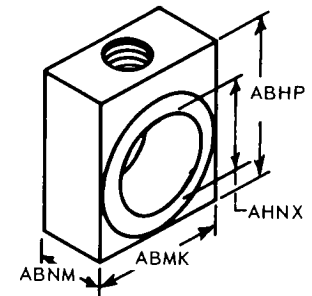
4 FLUID CONNECTIONS
W/MOUNTING PLATE

35

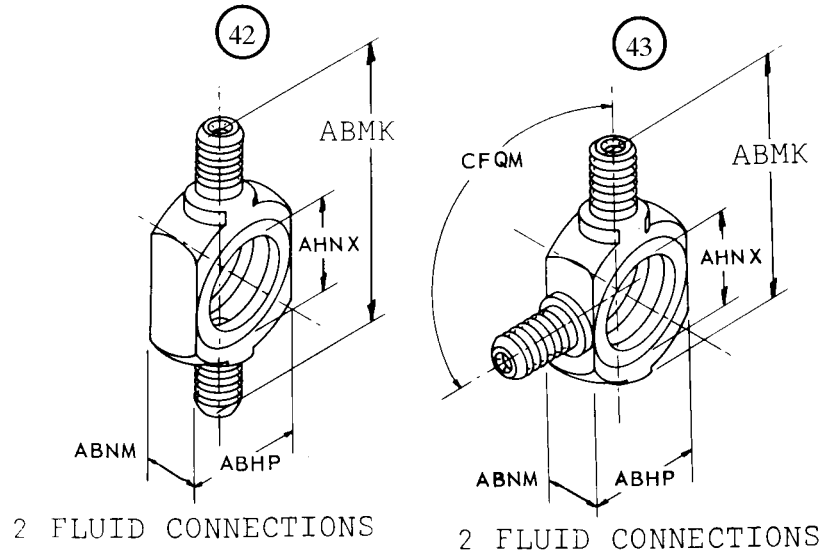
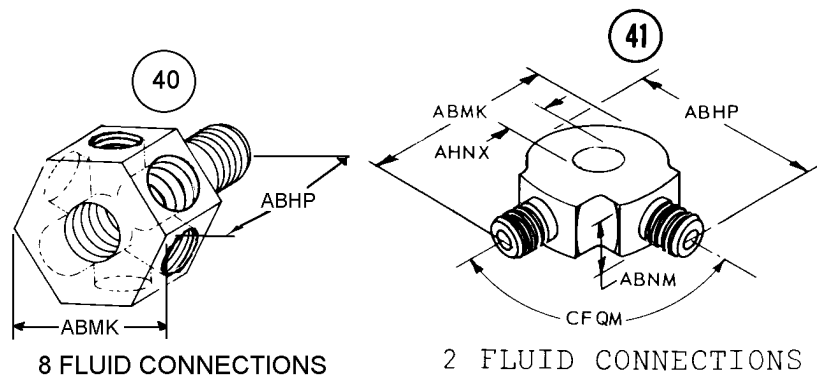
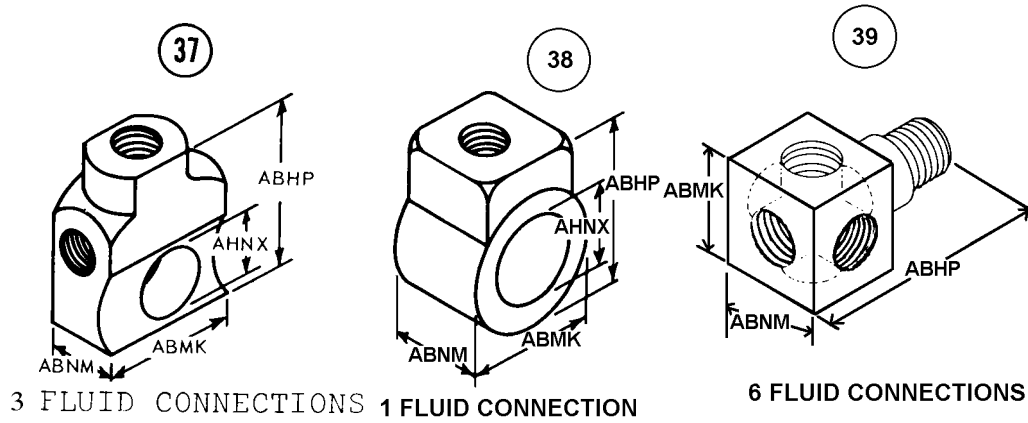


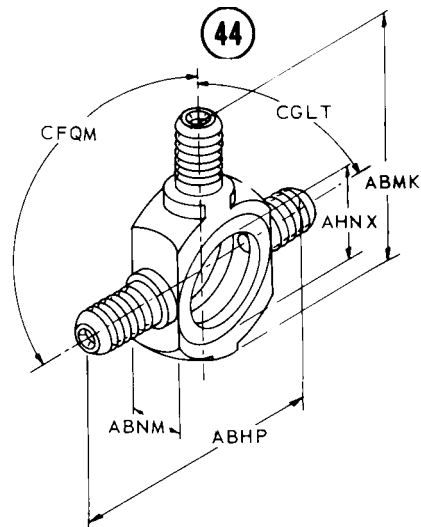
4 FLUID CONNECTIONS
W/MOUNTING PLATE

36

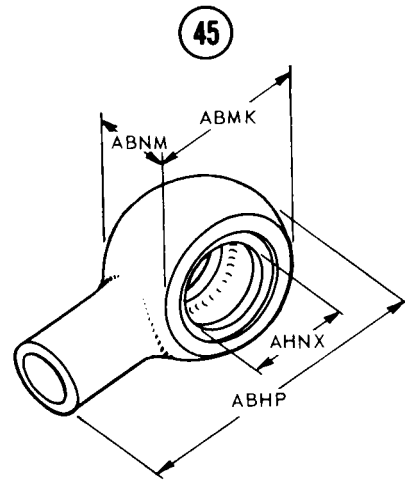


1 FLUID CONNECTION

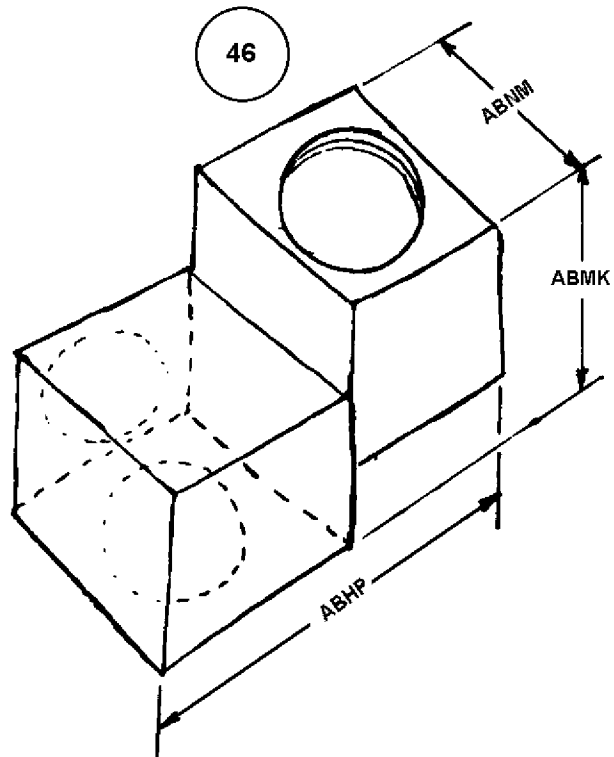




3 FLUID CONNECTIONS



1 FLUID CONNECTION



3 FLUID CONNECTIONS

REFERENCE DRAWING GROUP E Tables
END CONNECTIONS, THREADED FEMALE

INDEX OF STYLES

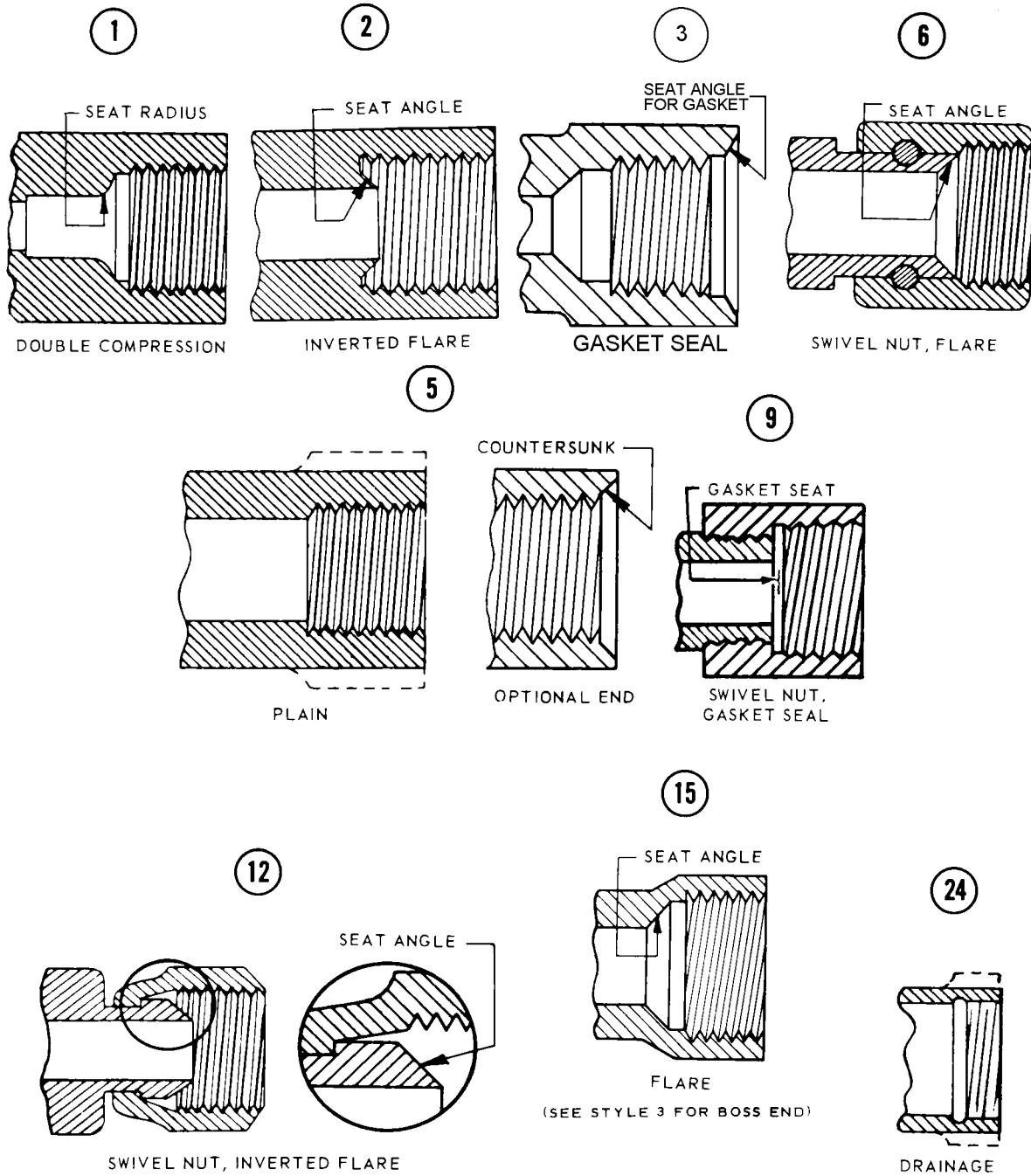
<u>Style No.</u>	<u>Type of Connection</u>	<u>Use Style No.</u>
1	Double Compression	1
2	Inverted Flare	2
3	Gasket Seal	3
5	Plain	5
6	Swivel Nut, Flare	6
9	Swivel Nut, Gasket Seal	9
12	Swivel Nut, Inverted Flare	12
15	Flare	15
24	Drainage	24
29	Swivel Nut, Gasket Seal	29
30	Deleted	5
31	Deleted	29
32	Deleted	12
33	Swivel Nut, Flared	33
34	Deleted	Not Replaced
35	Deleted	5
36	Deleted	2
37	Swivel Nut with	37
38	Swivel Nut with Loose or	38
39	Deleted	Not Replaced
40	Deleted	29
41	Deleted	38
42	Gasket Seal	42
43	Swivel Nut, Gasket Seal	43
44	Swivel Nut, GAS	44
45	Swivel Nut, Flareless CAP	45
46	Swivel Nut, Compression	46
47	Swivel Nut, Flareless	47
48	High Pressure Flare	48

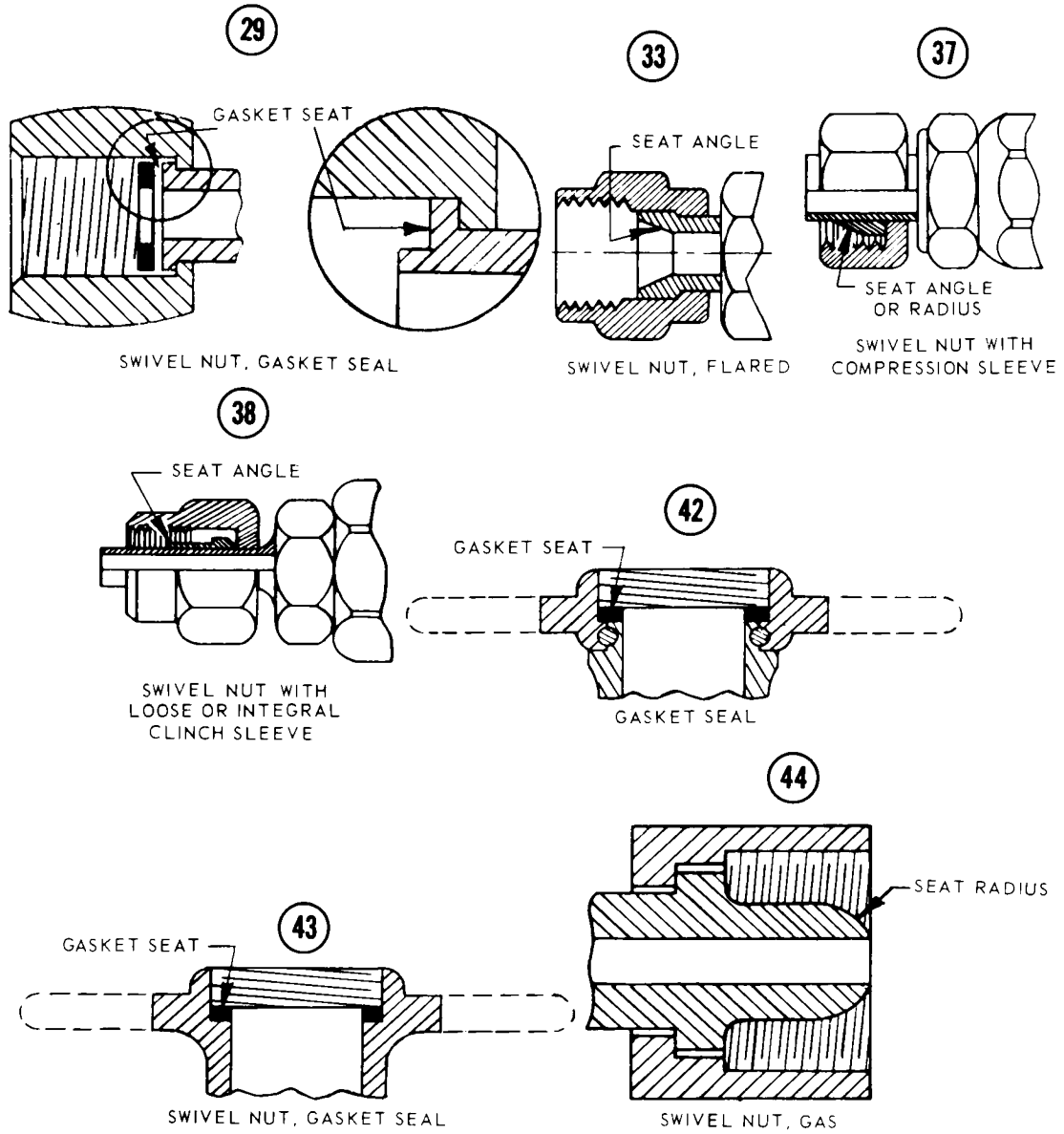
The following styles are intended to indicate the seating surface in relation to the threaded portion and when necessary, to indicate the type of swivel. Other internal and external contours and threaded series should not be considered when selecting the representative style.

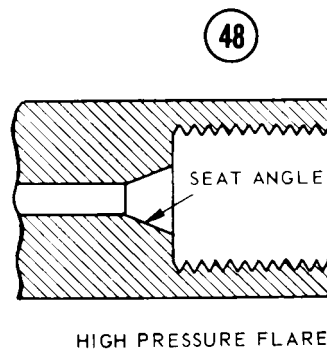
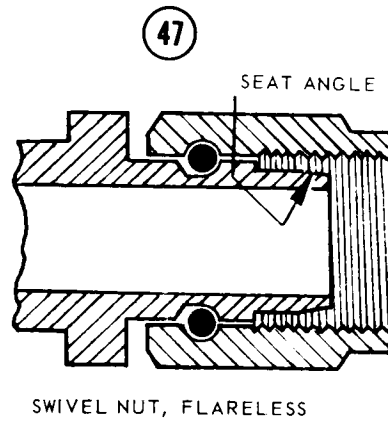
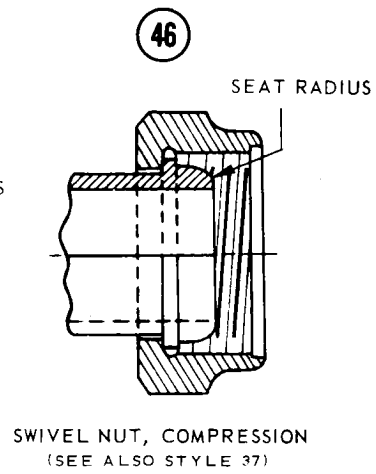
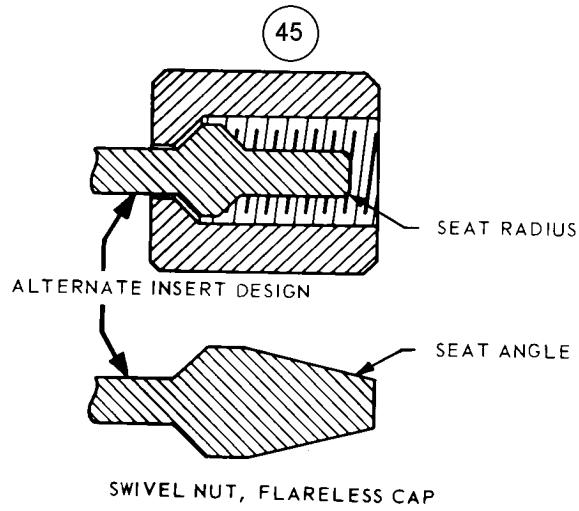
REFERENCE DRAWING GROUP E

END CONNECTIONS, THREADED FEMALE

(No Requirements)



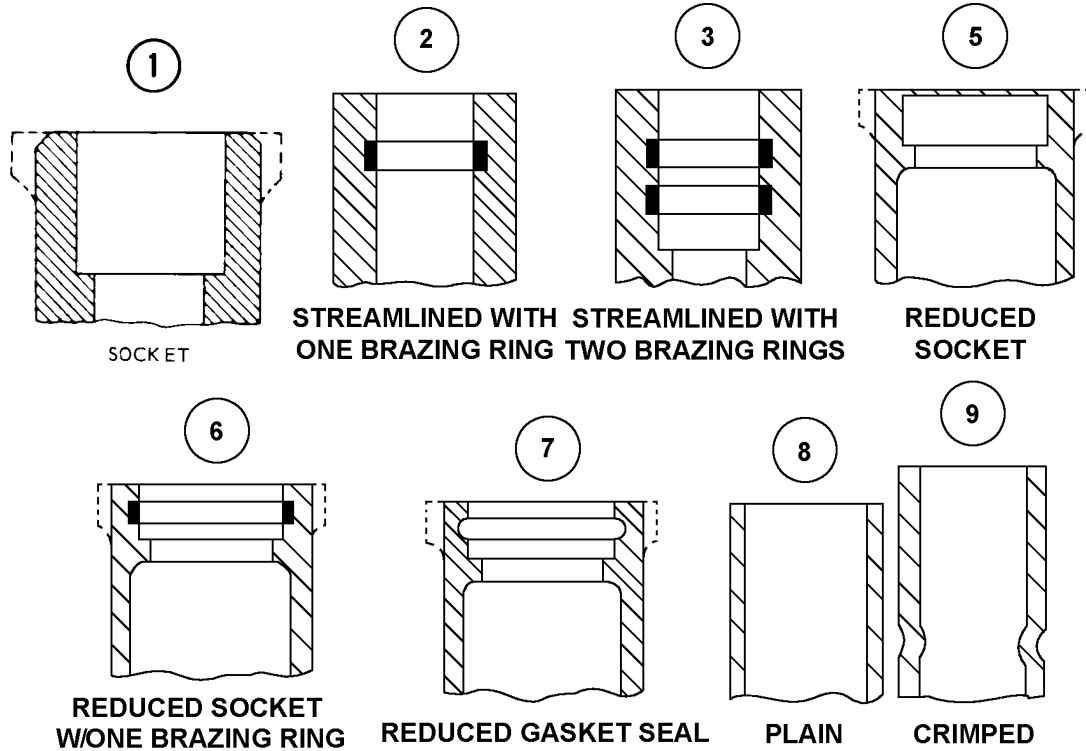


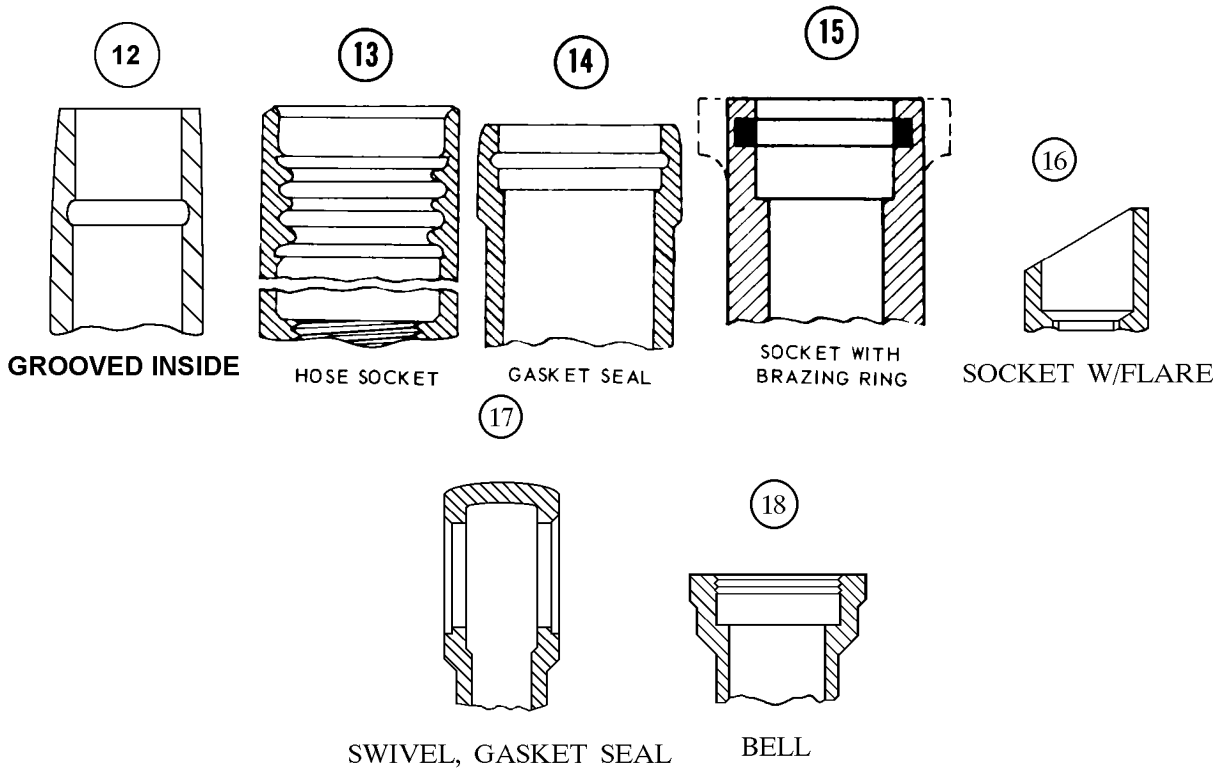


REFERENCE DRAWING GROUP F

END CONNECTIONS, UNTHREADED FEMALE

(No Requirements)





REFERENCE DRAWING GROUP G Tables

<u>Style No.</u>	<u>Index of Styles</u>	<u>Use Style No.</u>
1	Deleted	4
2	Deleted	19
3	Inverted Flare	3
4	Plain	4
5	Compression	5
6	Deleted	24
7	Hose Gripping Nipple	7
8	Deleted	24
9	Deleted	4
10	Deleted	19
11	Deleted	13
12	Hose Gripping	12
13	Deleted	4
14	Deleted	3
15	Deleted	5
16	Hose or Plastic Tubing	16
17	Deleted	19
18	Deleted	4
19	Flared	19
20	Solid Plug	20
21	Deleted	4
22	Deleted	4
23	External Seat/Gasket Seal	23
24	Flare less	24
25	Swivel Nut, Inverted Flare	25
26	Swivel Plain	26
27	Deleted	Not Replaced
28	Deleted	Not Replaced
29	Deleted	3
30	Swivel Nut, Double	30
31	Gasket Seal	31
32	Deleted	31
33	Deleted	19
34	Deleted	4
35	Swivel Nut, Flared	35
36	Double Threaded Section	36
37	Gasket Seal Compression	37

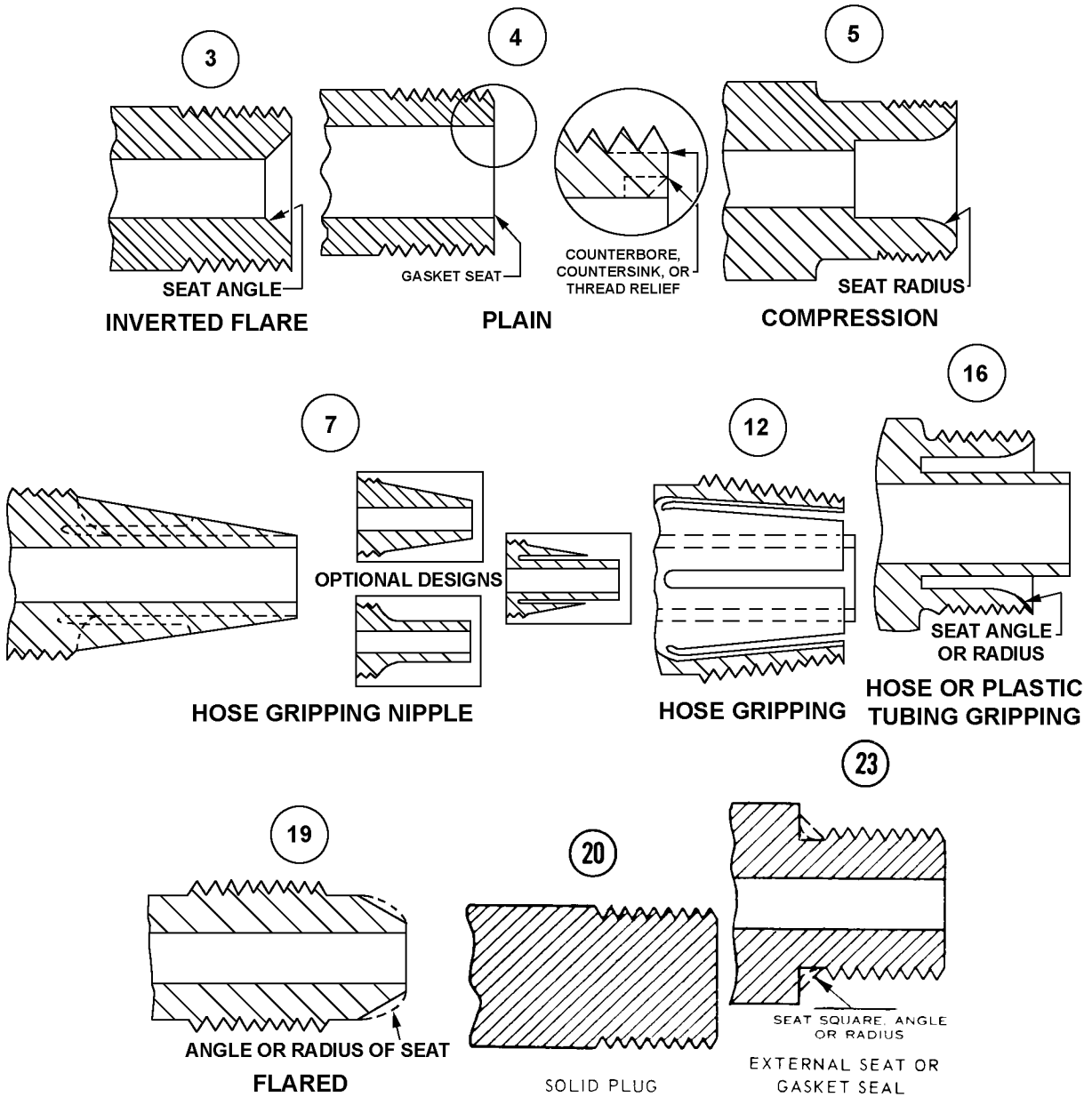
<u>Style No.</u>	<u>Index of Styles</u>	<u>Use Style No.</u>
38	Swivel Nut, Hose Gripping	38
39	Swivel Nut with internally	39

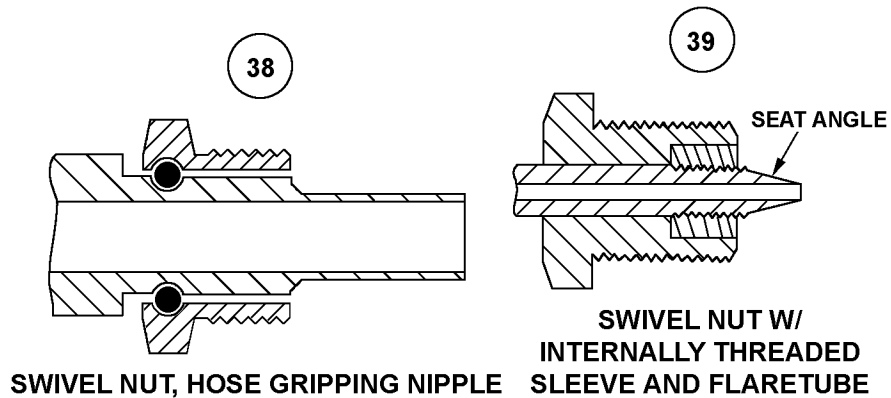
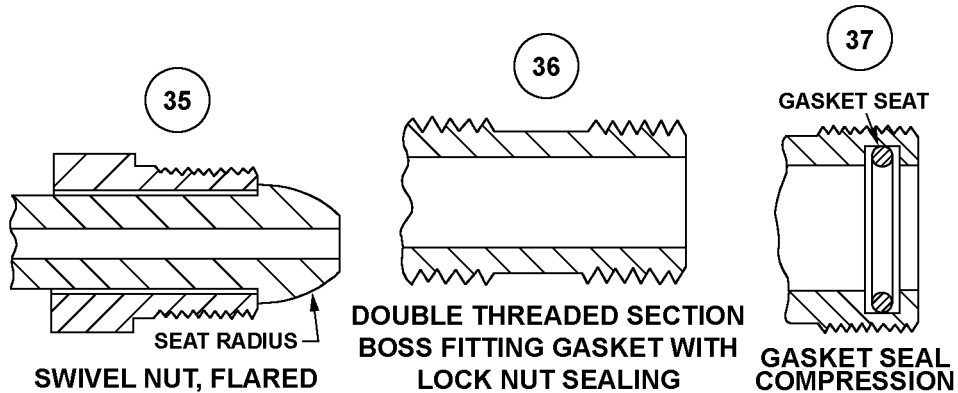
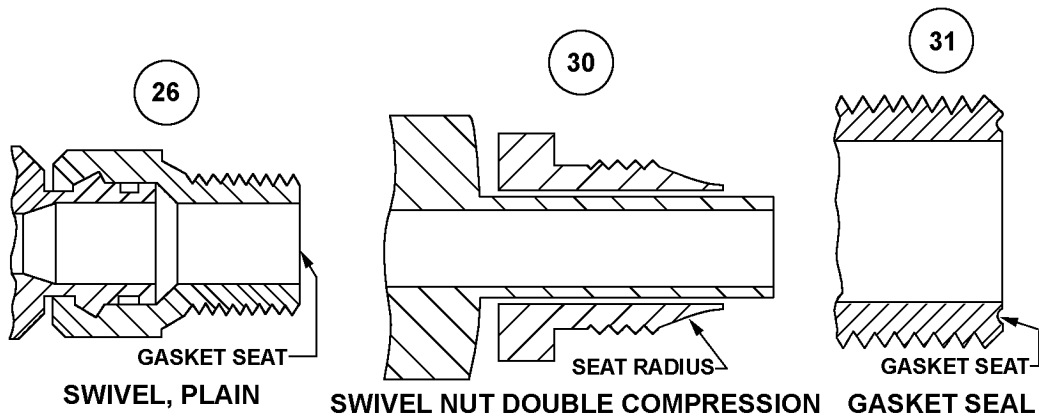
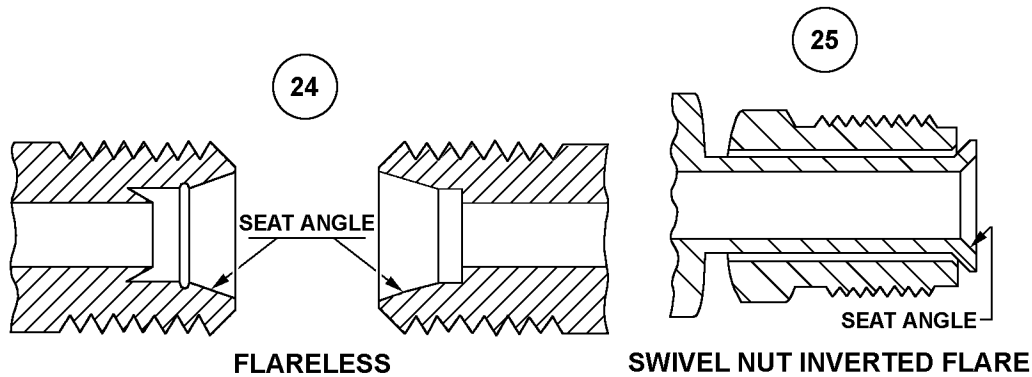
The following styles are intended to indicate the seating surface in relation to the threaded portion and, when necessary, to indicate the type of swivel. Other internal and external contours and thread series should not be considered when selecting the representative style.

REFERENCE DRAWING GROUP G

END CONNECTIONS, THREADED MALE

(No Requirements)

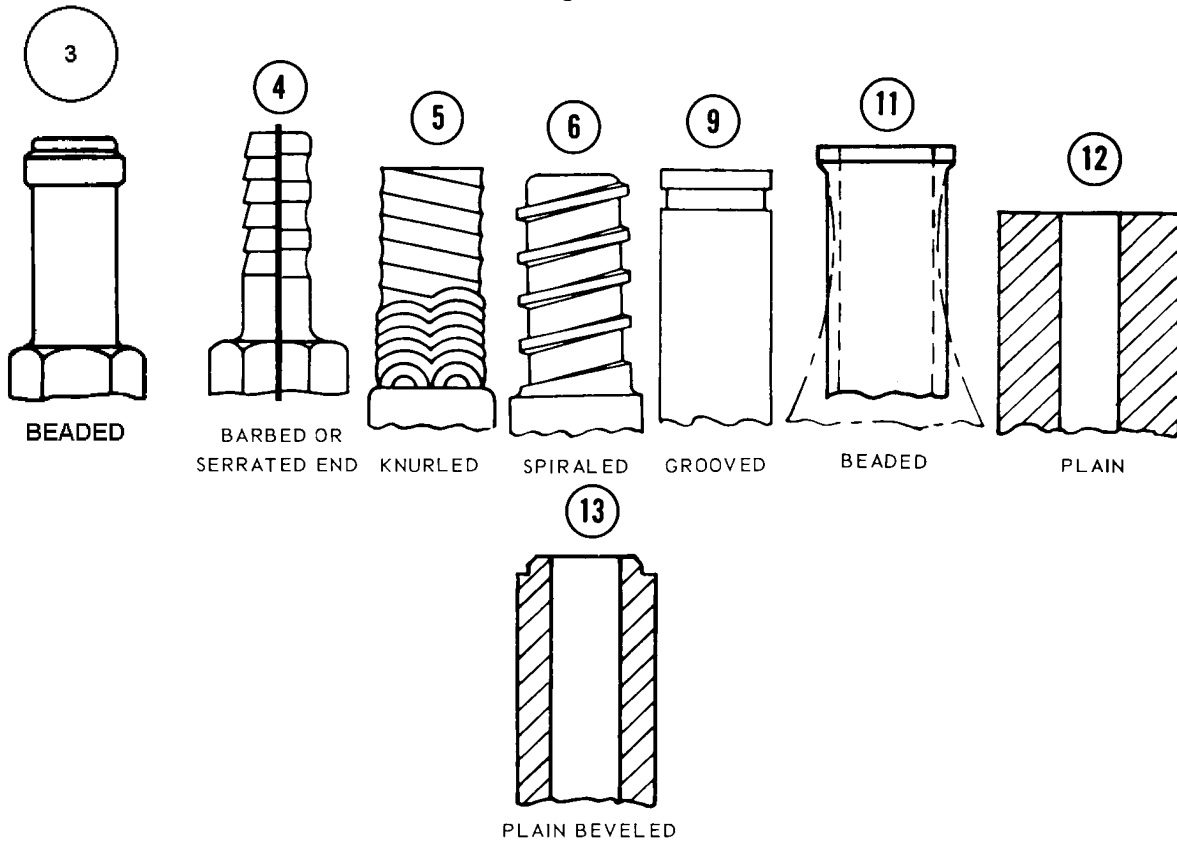




REFERENCE DRAWING GROUP H

END CONNECTIONS, UNHREADED MALE

(No Requirements)



REFERENCE DRAWING GROUP J Tables
FERRULES, BRAZING AND COMPRESSION TYPE

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABHPJAA0.436*; ABHPJAB0.433\$\$JAC0.439*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

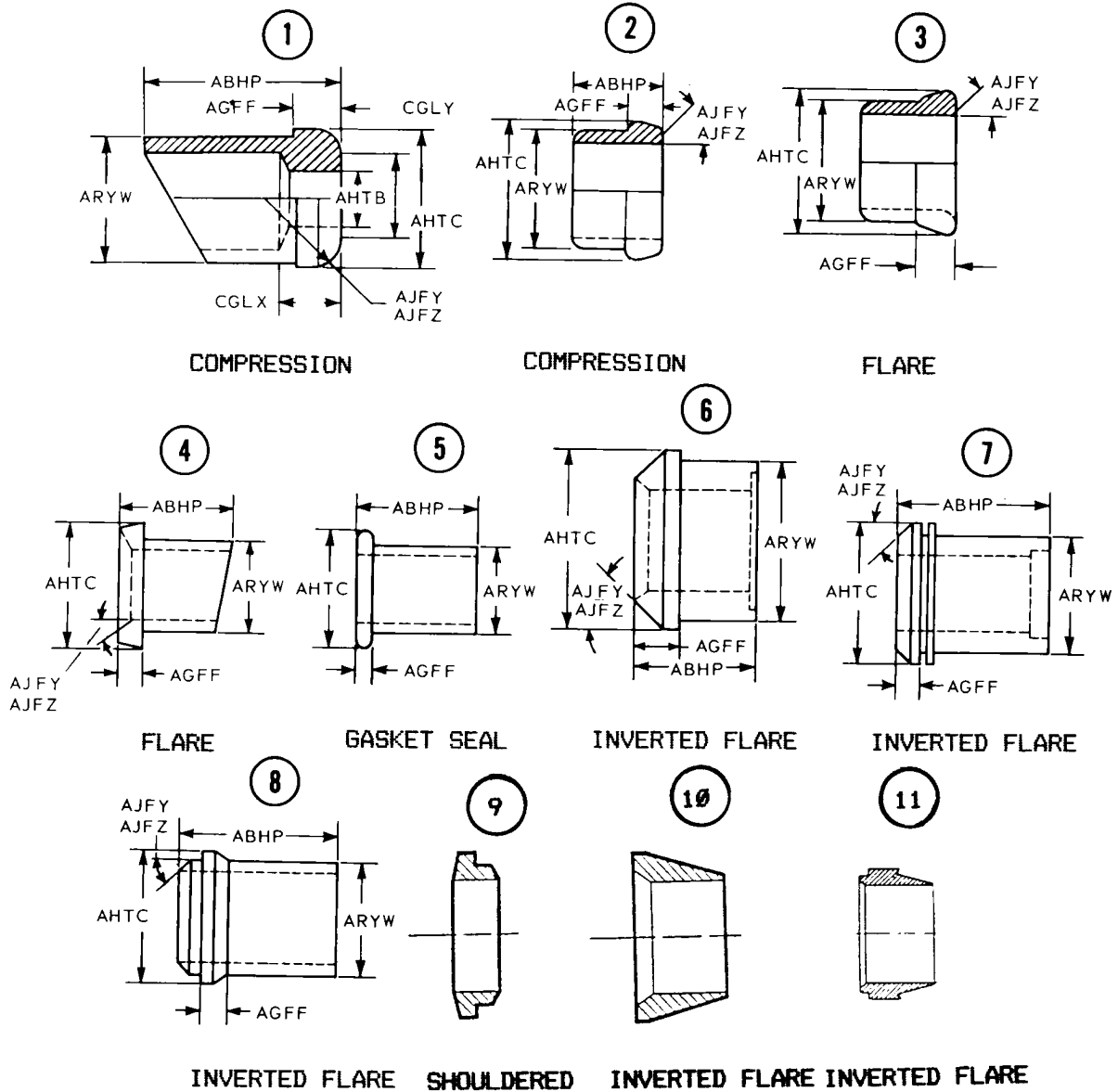
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABHP	J	OVERALL LENGTH
AGFF	J	FLANGE WIDTH
AHTB	J	FLANGE INSIDE DIAMETER
AHTC	J	FLANGE OUTSIDE DIAMETER
AJFZ	J	SEAT RADIUS
ARYW	J	SLEEVE OUTSIDE DIAMETER
CGLX	J	DISTANCE FROM FLANGED END TO TUBING CLEARANCE HOLE
CGLY	J	FLANGE FACE DIAMETER

Enter the numeric value. (e.g., AJFYB90.0*)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AJFY	B	SEAT ANGLE IN DEG

REFERENCE DRAWING GROUP J

FERRULES, BRAZING AND COMPRESSION TYPES



REFERENCE DRAWING GROUP K Tables
SLEEVES, COMPRESSION TYPE

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABHPJAA0.436*; ABHPJAB0.433\$\$JAC0.436*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

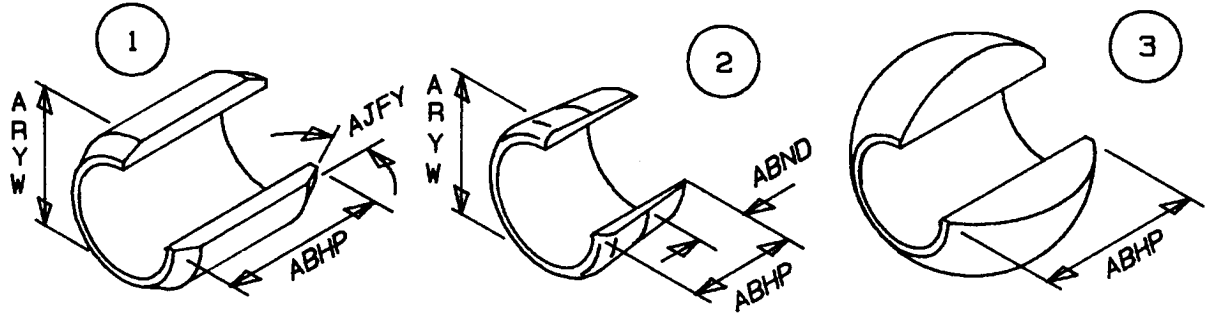
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABHP	J	OVERALL LENGTH
ABND	J	TAPER LENGTH
ARYW	J	SLEEVE OUTSIDE DIAMETER
ASDB	J	WIDTH ACROSS FLATS

Enter the numeric value. (e.g., AJFYB90.0*)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AJFY	B	SEAT ANGLE IN DEG

REFERENCE DRAWING GROUP K

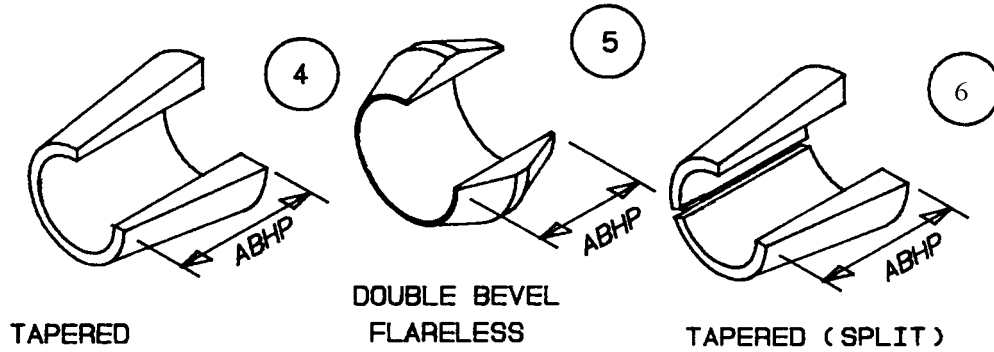
SLEEVES, COMPRESSION TYPE



DOUBLE BEVEL FLARELESS

TAPERED

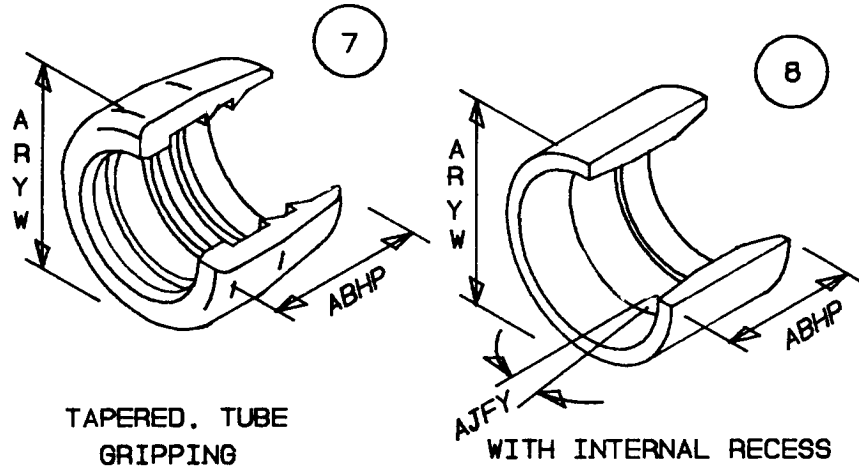
ROUNDED FLARELESS



TAPERED

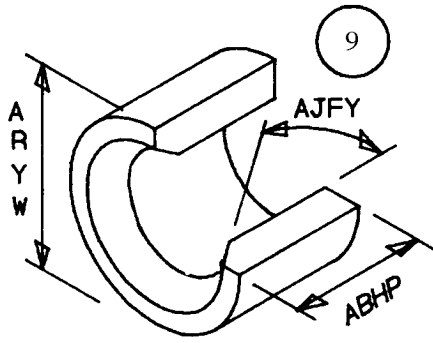
DOUBLE BEVEL
FLARELESS

TAPERED (SPLIT)

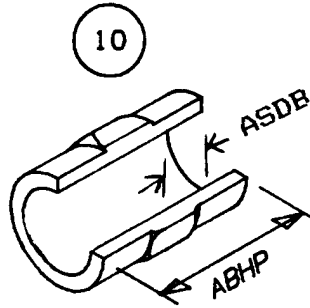


TAPERED. TUBE
GRIPPING

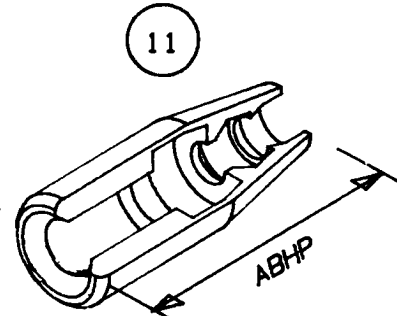
WITH INTERNAL RECESS



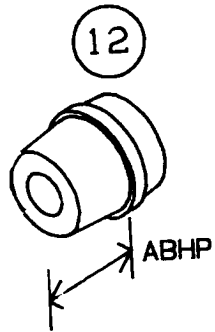
CYLINDRICAL



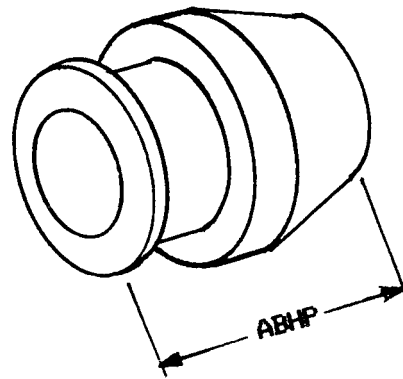
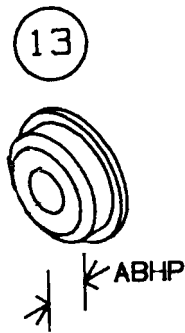
FLARELESS



FLAT/TAPERED



TAPERED, TUBE
GRIPPING, W/COLLAR FLANGED



TAPERED

REFERENCE DRAWING GROUP L Tables
SLEEVES, CLINCH TYPE

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABHPJAA0.436*; ABHPJAB0.433\$\$JAC0.439*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

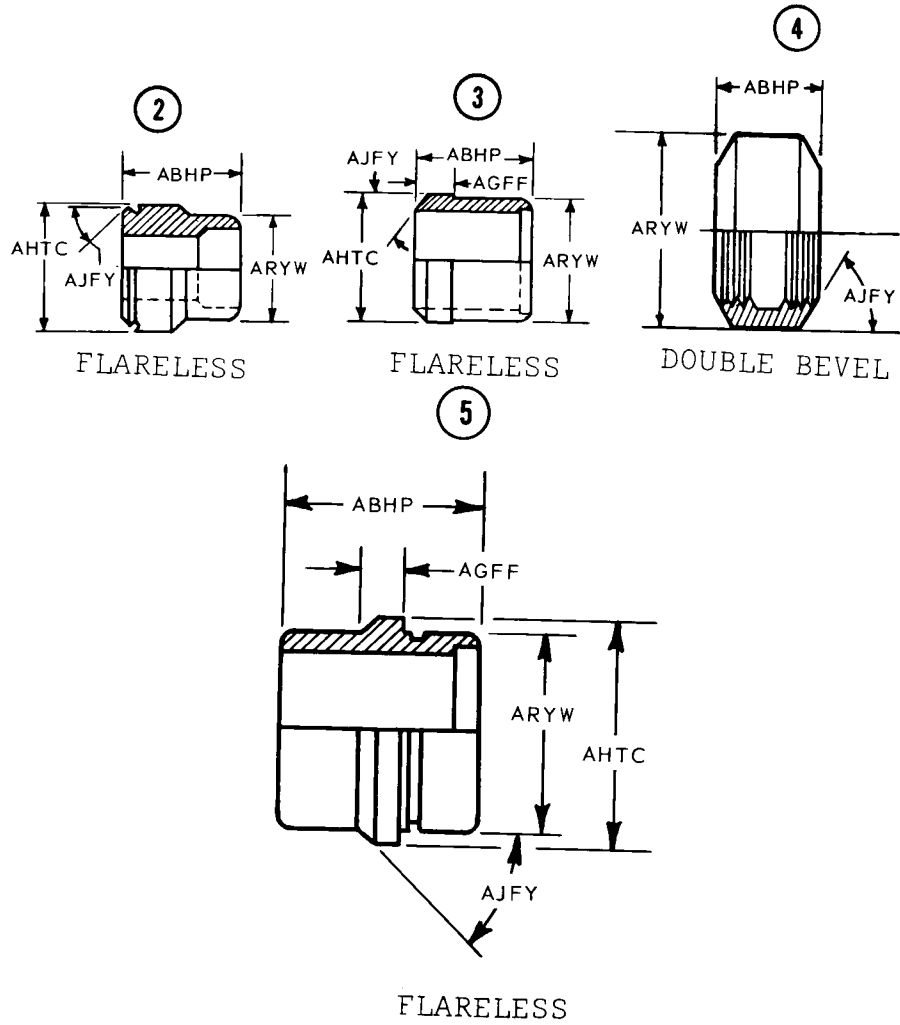
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABHP	J	OVERALL LENGTH
AGFF	J	FLANGE WIDTH
AHTC	J	FLANGE OUTSIDE DIAMETER
ARYW	J	SLEEVE OUTSIDE DIAMETER

Enter the numeric value. (e.g., AJFYB90.0*)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AJFY	B	SEAT ANGLE IN DEG

REFERENCE DRAWING GROUP L

SLEEVES, CLINCH TYPE



REFERENCE DRAWING GROUP M Tables
SLEEVES AND SEALS, FLARED TYPE

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABHPJAA0.436*; ABHPJAB0.433\$\$JAC0.439*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AAGT	J	WALL THICKNESS
ABHP	J	OVERALL LENGTH
ABKV	J	OUTSIDE DIAMETER
ADAQ	J	BODY LENGTH
AGFF	J	FLANGE WIDTH
AHTC	J	FLANGE OUTSIDE DIAMETER
ARYW	J	SLEEVE OUTSIDE DIAMETER

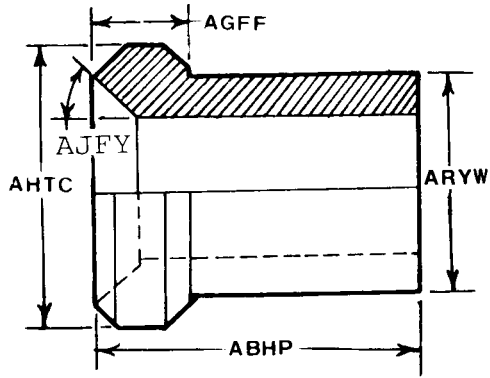
Enter the numeric value. (e.g., AJFYB90.0*)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AJFY	B	SEAT ANGLE IN DEG

REFERENCE DRAWING GROUP M

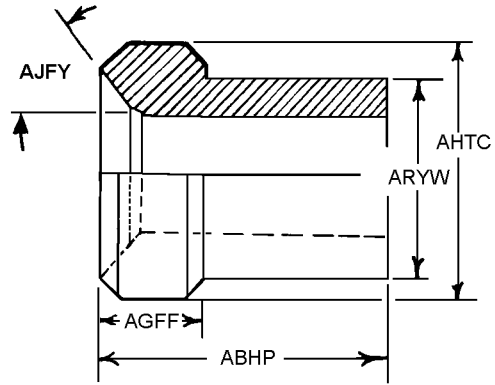
SLEEVES AND SEALS, FLARED TYPE

1



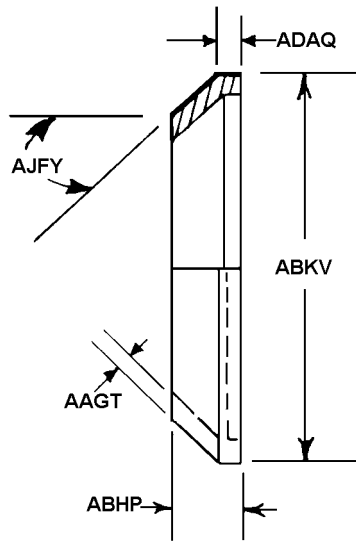
SLEEVE

4



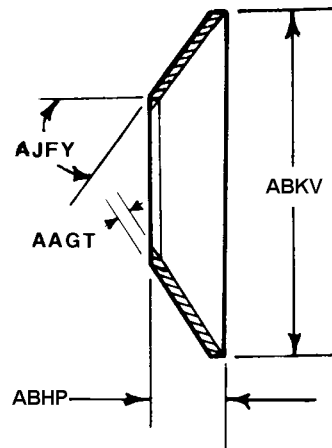
SLEEVE

5



SEAL

6

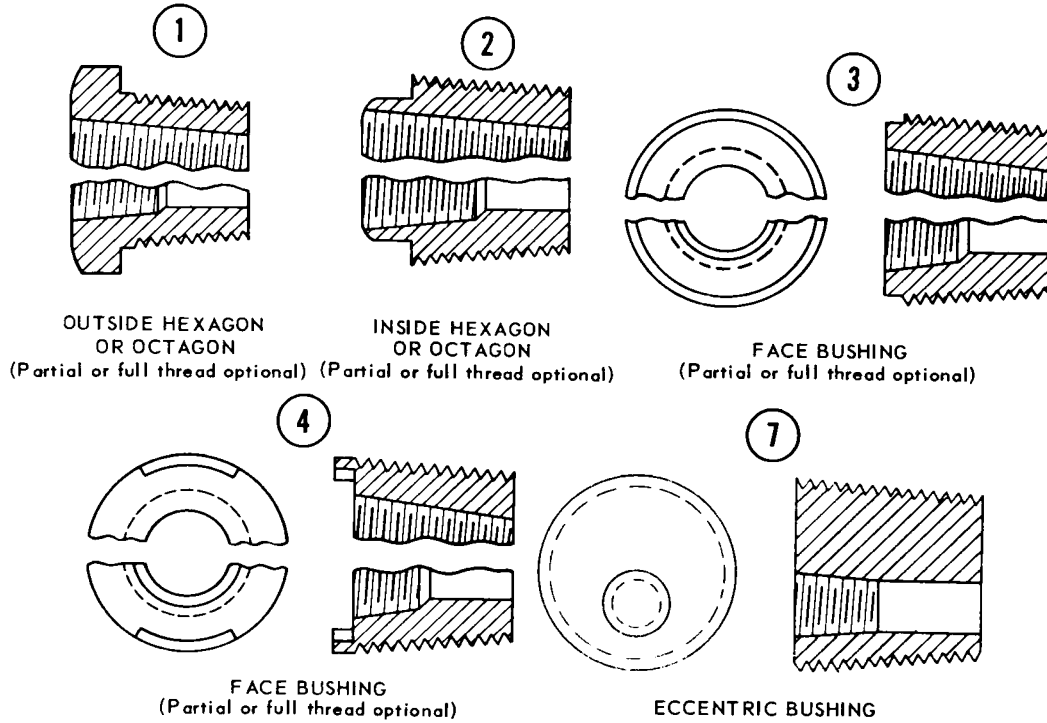


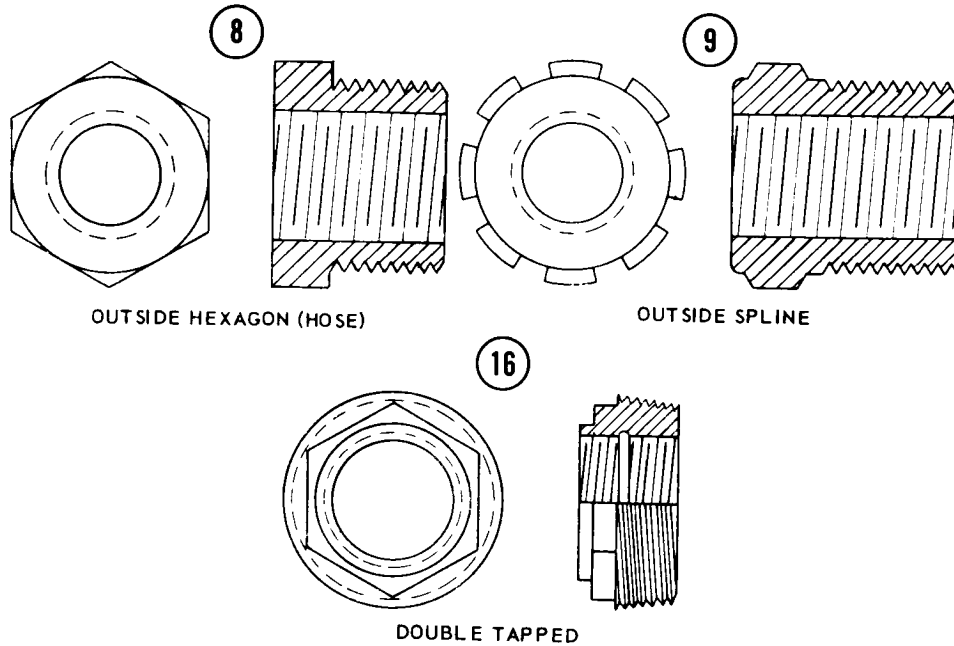
SEAL

REFERENCE DRAWING GROUP N

BUSHING STYLES

(No Requirements)

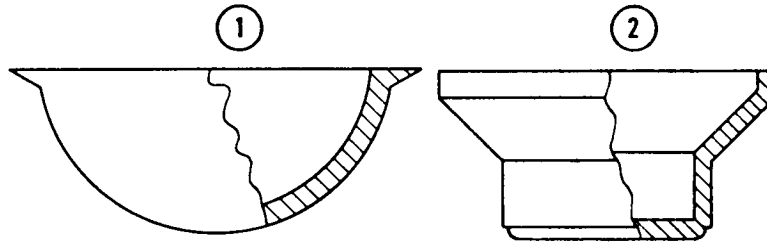




REFERENCE DRAWING GROUP P

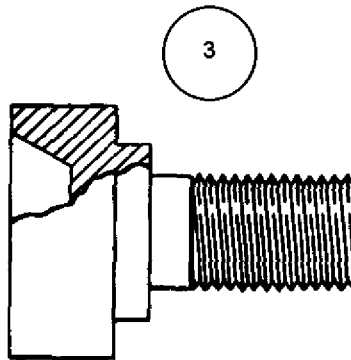
TUBE SEAL BONNETS

(No Requirements)



FLARE SEAL BONNET

S.A.E. SEAL BONNET



BULKHEAD MOUNTED FLARE SEAL BONNET

REFERENCE DRAWING GROUP R Tables
PIPELINE FLEXIBLE SPACERS

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABHPJAA10.125*; ABHPJAB0.120\$\$JAC0.130*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

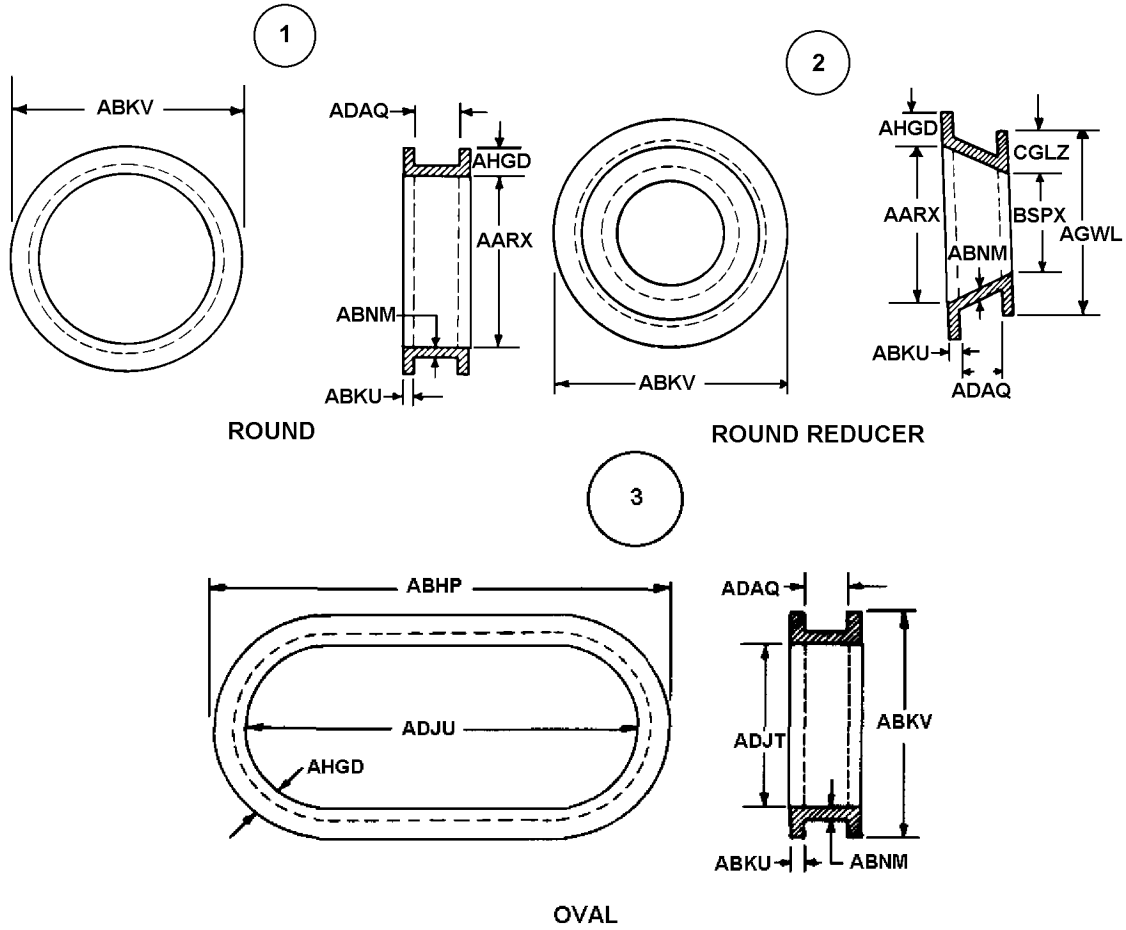
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AARX	J	INSIDE DIAMETER
ABHP	J	OVERALL LENGTH
ABKG #	J	BOLT CIRCLE DIAMETER
ABKU	J	FLANGE THICKNESS
ABKV	J	OUTSIDE DIAMETER
ABNM	J	THICKNESS
ADAQ	J	BODY LENGTH
ADJT	J	INSIDE WIDTH
ADJU	J	INSIDE LENGTH
ADJV	J	OUTSIDE WIDTH
AGWL	J	SMALLEST OUTSIDE DIAMETER
AHGD	J	FLANGE HEIGHT
AHNX #	J	BOLT HOLE DIAMETER
AJEE #	J	RAISED FACE DIAMETER
BSPX	J	SMALLEST INSIDE DIAMETER
CGLZ	J	SMALLEST FLANGE HEIGHT

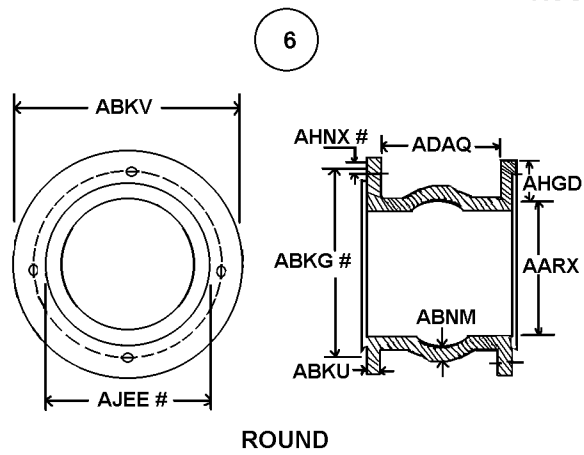
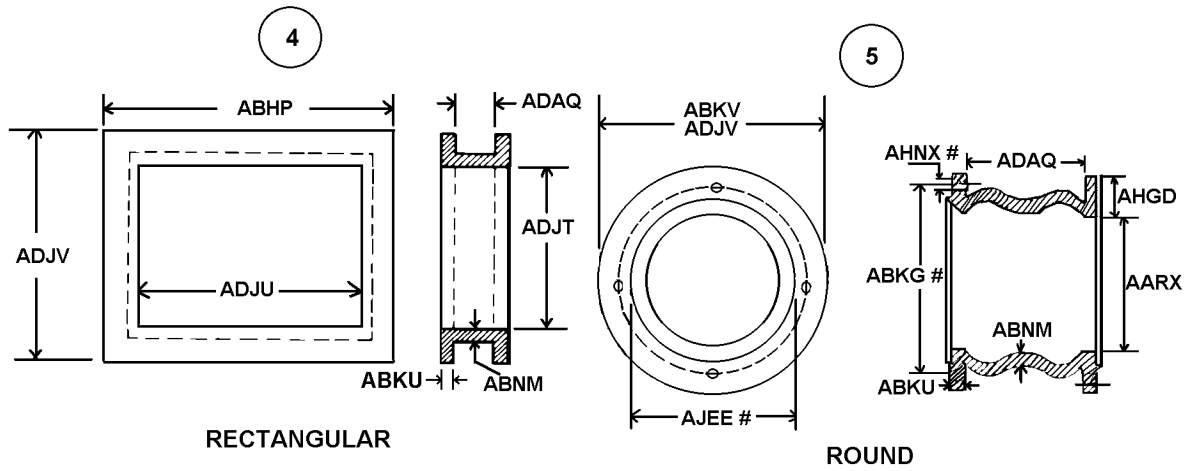
Enter the Quantity. (e.g., AECSA4*)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AECS #	A	BOLT HOLE QUANTITY

REFERENCE DRAWING GROUP R

PIPELINE FLEXIBLE SPACERS

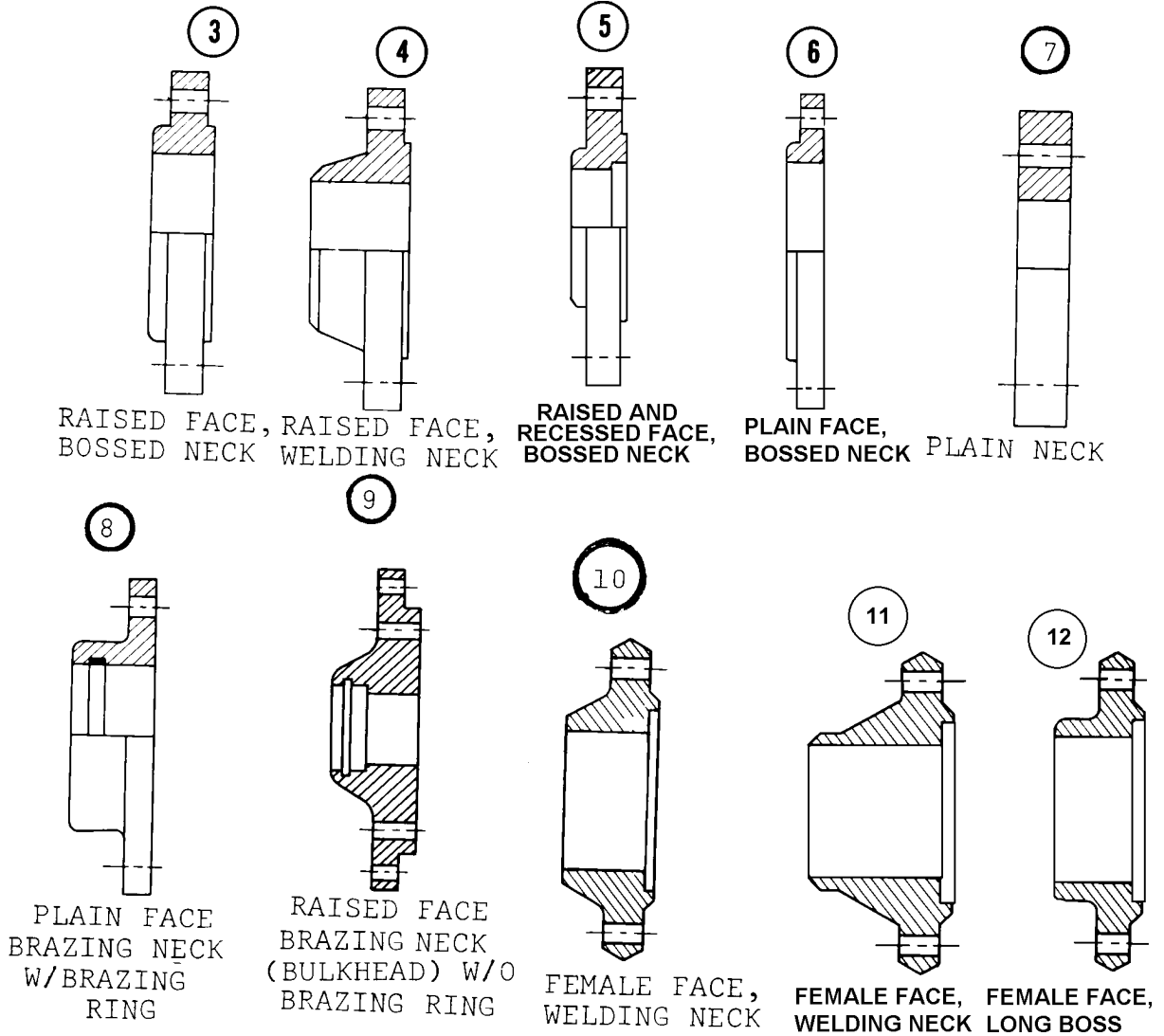


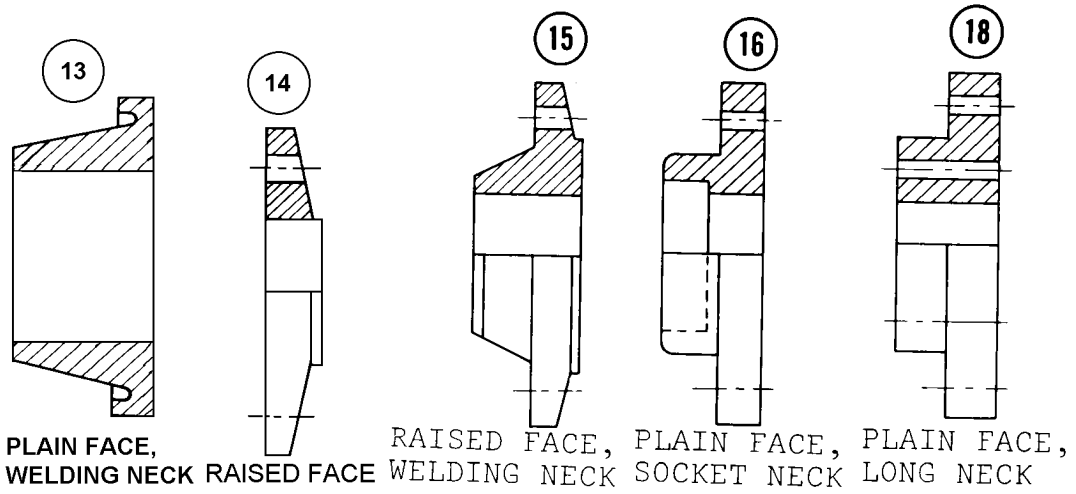


REFERENCE DRAWING GROUP S

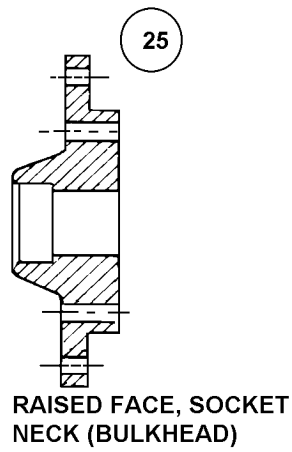
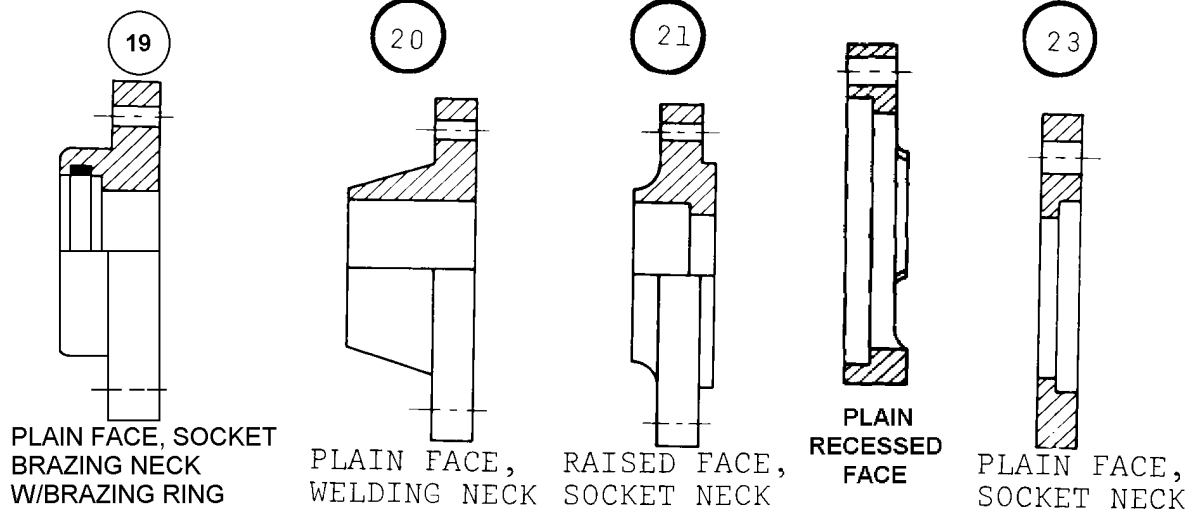
FLANGE STYLES

(No Requirements)





22



REFERENCE DRAWING GROUP T Tables
FERRULES, SWAGE TYPE

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., AHTBJAA0.500*; AHTBJAB0.750\$\$JAC0.755*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AAZT	J	SLOT DEPTH
ABGC	J	SLOT WIDTH
ABHP	J	OVERALL LENGTH
AGFF	J	FLANGE WIDTH
AHTB	J	FLANGE INSIDE DIAMETER
AHTC	J	FLANGE OUTSIDE DIAMETER
ARYW	J	SLEEVE OUTSIDE DIAMETER
CGLX	J	DISTANCE FROM FLANGED END TO TUBING CLEARANCE HOLE

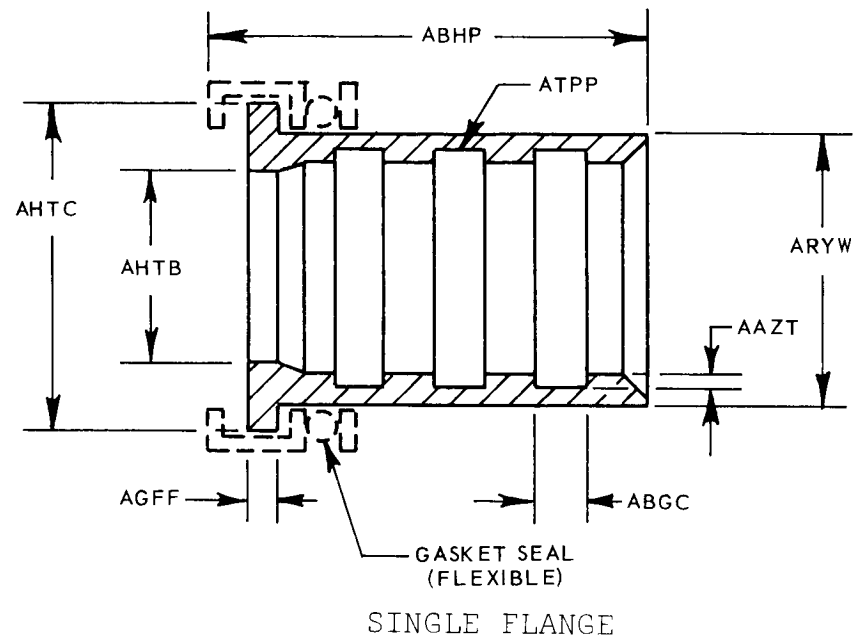
Enter the numeric value. (e.g., ATPPA6*)

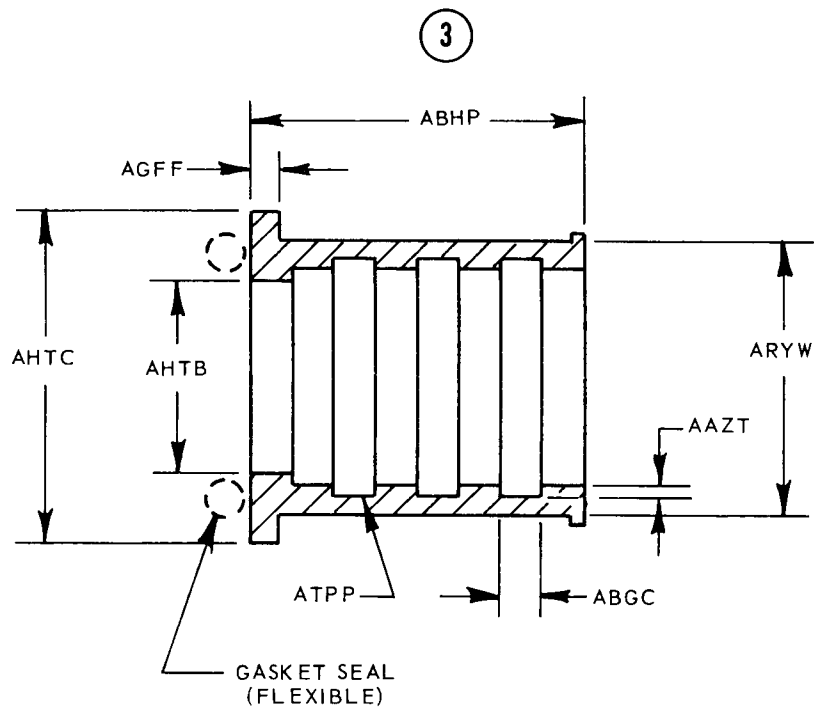
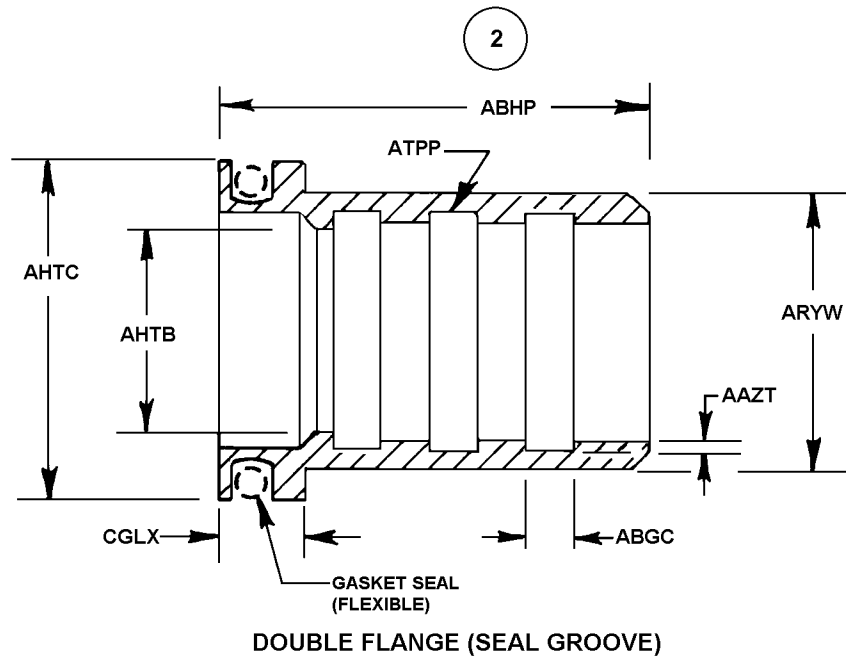
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ATPP	A	SLOT QUANTITY

REFERENCE DRAWING GROUP T

FERRULES, SWAGE TYPE

①





REFERENCE DRAWING GROUP U Tables
COUPLING ASSEMBLIES, ADAPTER-COUPLING-REDUCER BODIES, FLEXIBLE AND
RIGID

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABHPJAA2.500*; ABKVJAB1.500\$\$JAC1.510*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

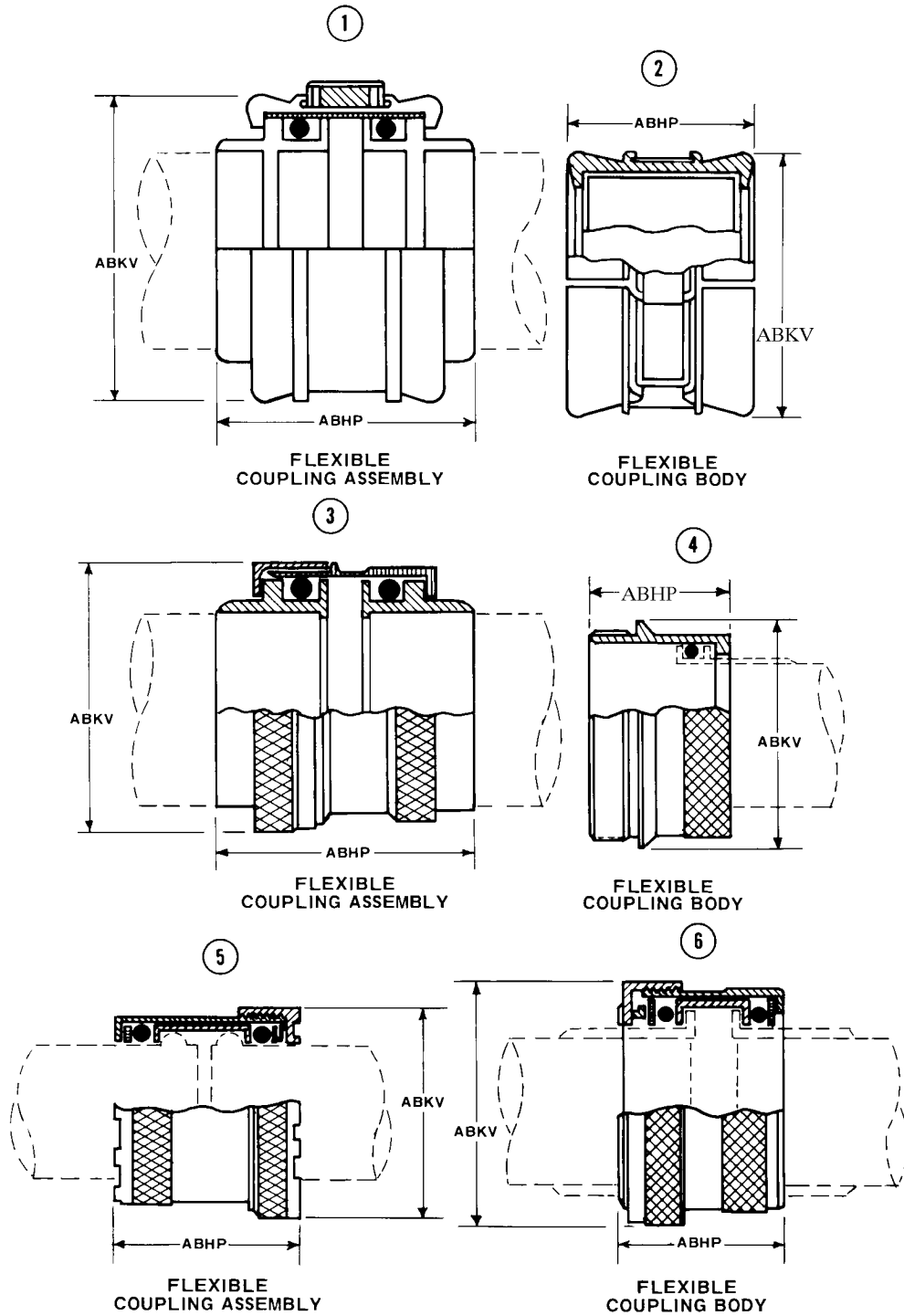
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABHP	J	OVERALL LENGTH
ABKV	J	OUTSIDE DIAMETER
AGFF	J	FLANGE WIDTH
AHTC	J	FLANGE OUTSIDE DIAMETER

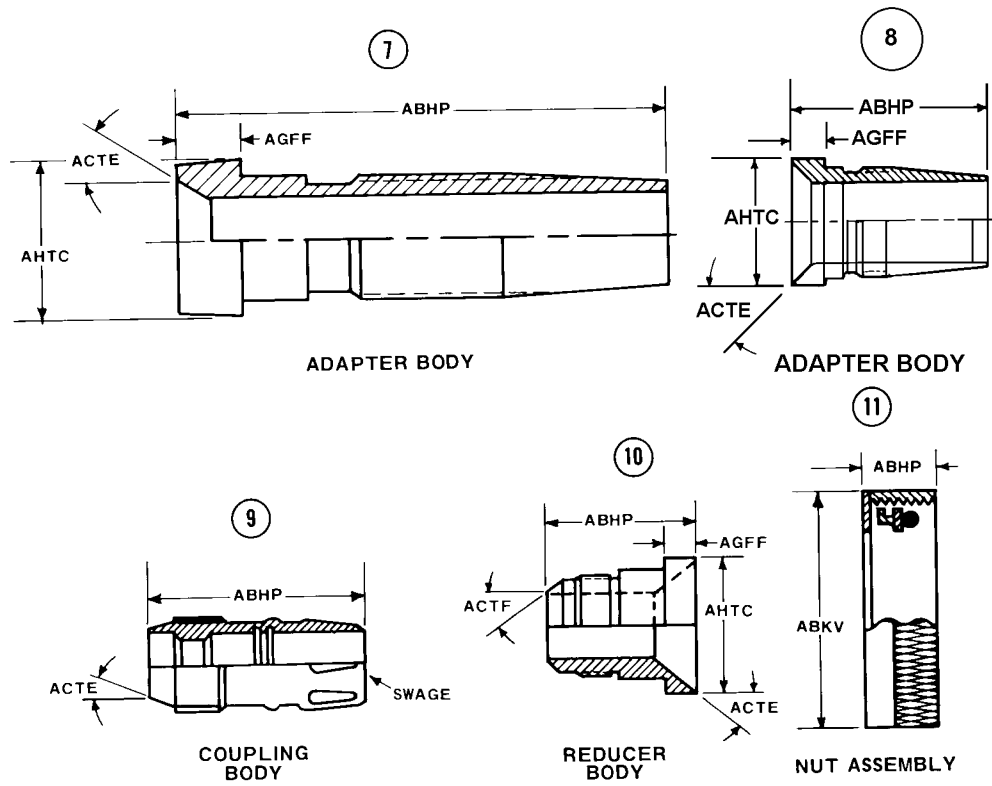
Enter the numeric value. (e.g., ACTEB37.5*)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ACTE	B	FIRST END SEAT ANGLE IN DEG
ACTF	B	SECOND END SEAT ANGLE IN DEG

REFERENCE DRAWING GROUP U

COUPLING ASSEMBLIES, ADAPTER-COUPLING-REDUCER BODIES, FLEXIBLE AND RIGID





REFERENCE DRAWING GROUP V Tables
INSERT, TUBE FITTING

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., AHTCJAA0.436*; AHTCJAB0.433\$\$JAC0.439*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

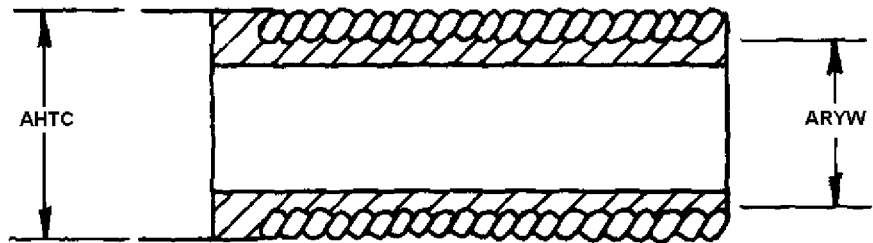
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AHTC	J	FLANGE OUTSIDE DIAMETER
ARYW	J	SLEEVE OUTSIDE DIAMETER

REFERENCE DRAWING GROUP V

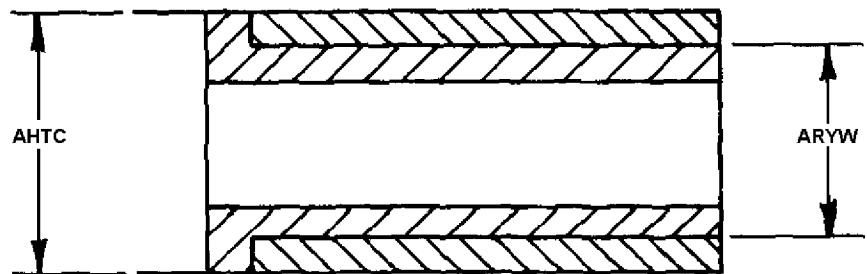
INSERT, TUBE FITTING

1



SERRATED

2



PLAIN

REFERENCE DRAWING GROUP W Tables
SHIELD, SAFETY, PIPE FLANGE

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value.
(e.g., ABHPJAA4.500*; ABHPJAB3.125\$\$JAC3.130*)

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

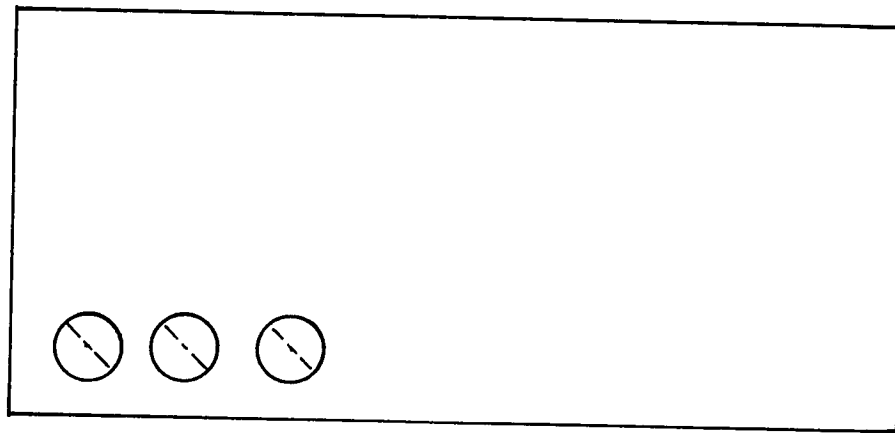
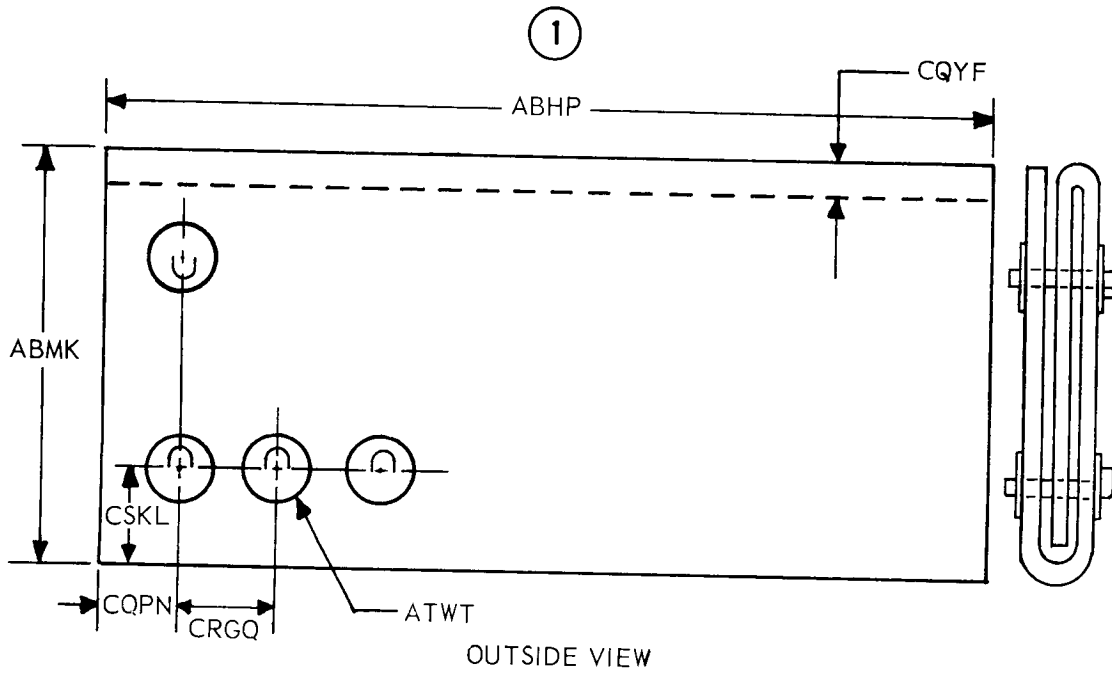
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABHP	J	OVERALL LENGTH
ABMK	J	OVERALL WIDTH
CQPN	J	DISTANCE FROM HOOK CENTER TO NEAREST OUTSIDE EDGE ALONG
CQYF	J	DISTANCE FROM SEWN SEAM TO NEAREST OUTSIDE EDGE ALONG LENGTH
CRGQ	J	CENTER TO CENTER DISTANCE BETWEEN HOOKS
CSKL	J	DISTANCE FROM HOOK CENTER TO NEAREST OUTSIDE EDGE ALONG WIDTH

Enter the Quantity. (e.g., ATWTA4*)

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ATWT	A	HOOK QUANTITY

REFERENCE DRAWING GROUP W

SHIELD, SAFETY, PIPE FLANGE



INSIDE VIEW

Technical Data Tables

HOSE THREAD SERIES	225
STANDARD FRACTION TO DECIMAL CONVERSION CHART	226

HOSE THREAD SERIES

Table for American National Hose-Coupling and Hose-Nipple Threads including American National Fire-Hose Couplings and Fire-Hose Nipples.

<u>Nominal Size of Hose</u>	<u>Identification Symbol</u>	<u>Service</u>	<u>Threads per Inch</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>
<u>Inches</u>			
1/2, 5/8, 3/4--	NH	Garden Hose-----	11 1/2
3/4, 1-----	*NH	Chemical engine and booster hose.	8
1 1/2-----	*NH	Fire protection Hose-----	9
1/2-----	**NPSH		14
3/4-----	**NPSH		14
1-----	**NPSH	Steam, air, water, and all 11 other hose connections.	11 1/2
1 1/4-----	**NPSH		11 1/2
1 1/2-----	**NPSH		11 1/2
2-----	**NPSH		11 1/2
2 1/2-----	*NH		7 1/2
3-----	*NH		6
3 1/2-----	*NH		6
4-----	*NH	Fire Hose-----	4
4-----	*NH (spl)		6
4 1/2-----	*NH		4
5-----	*NH		4
6-----	*NH		4

*For Fire Fighting Equipment.

**May be used on Fire Fighting Equipment (must be justified) on all Federal Item Identification by a reply to FSC application data).

FIG T385
APPENDIX C

STANDARD FRACTION TO DECIMAL CONVERSION CHART

<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	<u>To 3</u>	<u>To 4</u>	<u>4ths</u>	<u>8ths</u>	<u>16ths</u>	<u>32nds</u>	<u>64ths</u>	<u>To 3</u>	<u>To 4</u>
				1/64	.016	.0156					33/64	.516	.5156
			1/32	-----	.031	.0312				17/32	-----	.531	.5312
				3/64	.047	.0469					35/64	.547	.5469
		1/16	-----		.062	.0625			9/16	-----	-----	.562	.5625
				5/64	.078	.0781					37/64	.578	.5781
			3/32	-----	.094	.0938				19/32	-----	.594	.5938
				7/64	.109	.1094					39/64	.609	.6094
	1/8	-----	-----	-----	.125	.1250		5/8	-----	-----	-----	.625	.6250
				9/64	.141	.1406					41/64	.641	.6406
			5/32	-----	.156	.1562				21/32	-----	.656	.6562
				11/64	.172	.1719					43/64	.672	.6719
		3/16	-----	-----	.188	.1875			11/16	-----	-----	.688	.6875
				13/64	.203	.2031					45/64	.703	.7031
			7/32	-----	.219	.2188				23/32	-----	.719	.7188
				15/64	.234	.2344					47/64	.734	.7344
1/4	-----	-----	-----	-----	.250	.2500	3/4	-----	-----	-----	-----	.750	.7500
				17/64	.266	.2656					49/64	.766	.7656
			9/32	-----	.281	.2812				25/32	-----	.781	.7812
				19/64	.297	.2969					51/64	.797	.7969
		5/16	-----	-----	.312	.3125			13/16	-----	-----	.812	.8125
				21/64	.328	.3281					53/64	.828	.8281
			11/32	-----	.344	.3438				27/32	-----	.844	.8438
				23/64	.359	.3594					55/64	.859	.8594
	3/8	-----	-----	-----	.375	.3750		7/8	-----	-----	-----	.875	.8750
				25/64	.391	.3906					57/64	.891	.8906
			13/32	-----	.406	.4062				29/32	-----	.906	.9062
				27/64	.422	.4219					59/64	.922	.9219
		7/16	-----	-----	.438	.4375			15/16	-----	-----	.938	.9375
				29/64	.453	.4531					61/64	.953	.9531
			15/32	-----	.469	.4688				31/32	-----	.969	.9688
				31/64	.484	.4844					63/64	.984	.9844
					.500	.5000						1.000	1.0000

FIIG Change List

FIIG Change List, Effective August 6, 2010.

This change replaced with ISAC or and/or coding.